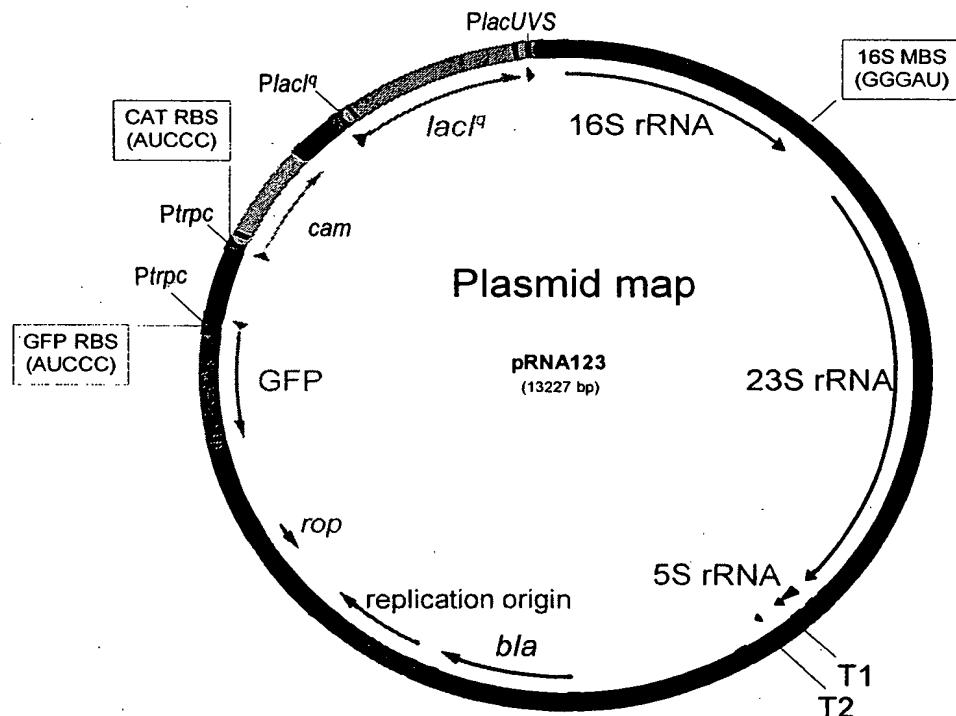


Nucleotide	Description
1-1542	16S rRNA of <i>Escherichia coli</i> rrnB operon
1536-1540	16S MBS (message binding sequence) GGGAU
1543-1982	16S-23S spacer region
1983-4886	23S rRNA of <i>Escherichia coli</i> rrnB operon
4887-4982	23S-5S spacer region
4983-5098	5S rRNA of <i>Escherichia coli</i> rrnB operon
5102-5145	terminator T1 of <i>Escherichia coli</i> rrnB operon
5276-5305	terminator T2 of <i>Escherichia coli</i> rrnB operon
6575-7432	<i>bla</i> (β -lactamase; ampicillin resistance)
7575-8209	replication origin
8813-8622	<i>rop</i> (Rop protein)
10201-9467	GFP (Green Fluorescent Protein)
10213-10209	GFP RBS (ribosome binding sequence) AUCCC
10270-10230	<i>trpc</i> promoter
10745-10785	<i>trpc</i> promoter
10802-10806	CAT RBS (ribosome binding sequence) AUCCC
10814-11473	<i>cam</i> (chloramphenicol acetyltransferase; CAT)
11782-11859	<i>lac^q</i> promoter
11860-12942	<i>lac^q</i> (lac repressor)
12985-13026	<i>lacUV5</i> promoter



MBS=message binding site=Anti-Shine-Dalgarno sequence
RBS=ribosome binding site=Shine-Dalgarno sequence

Fig. 1

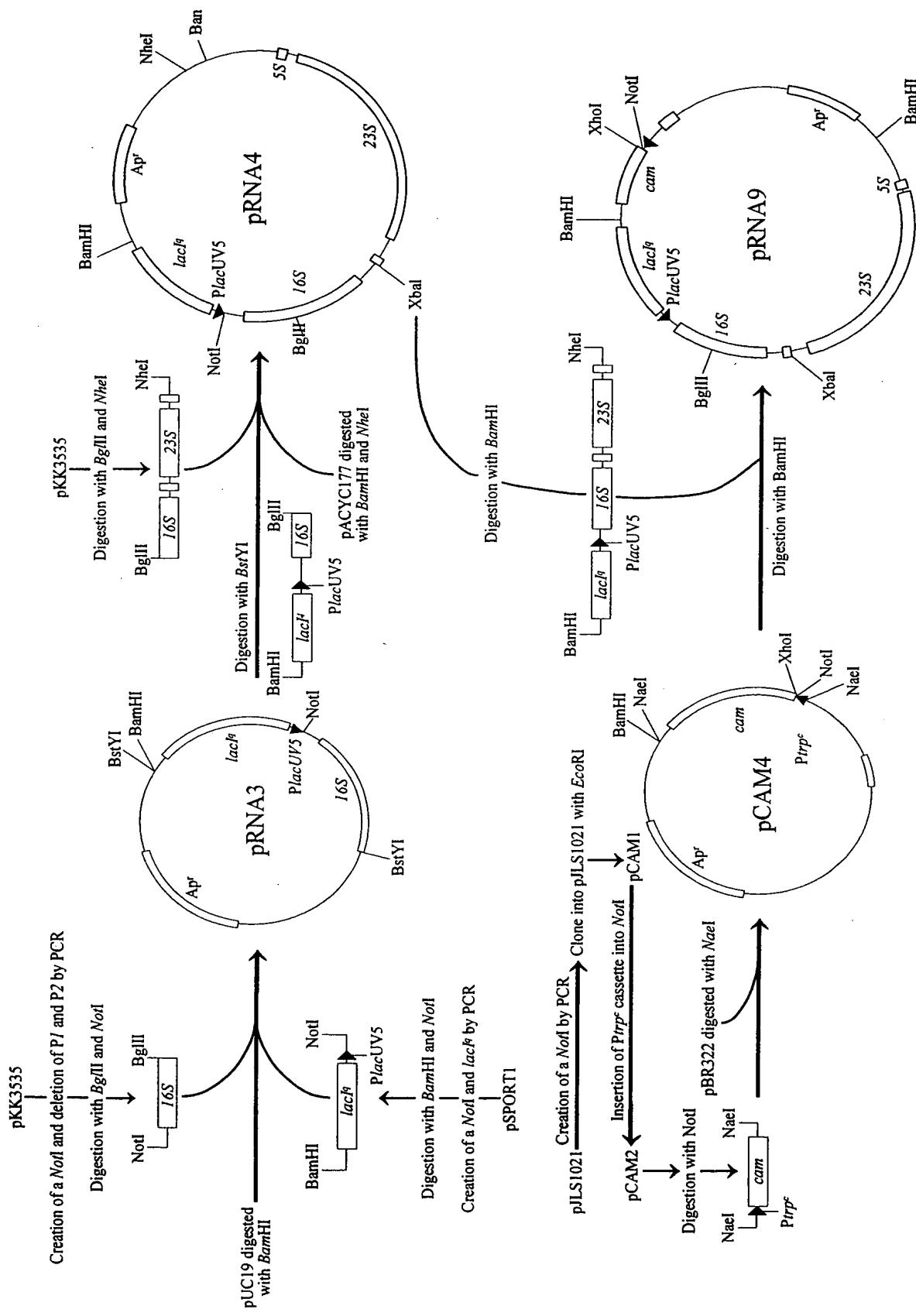


Fig. 2

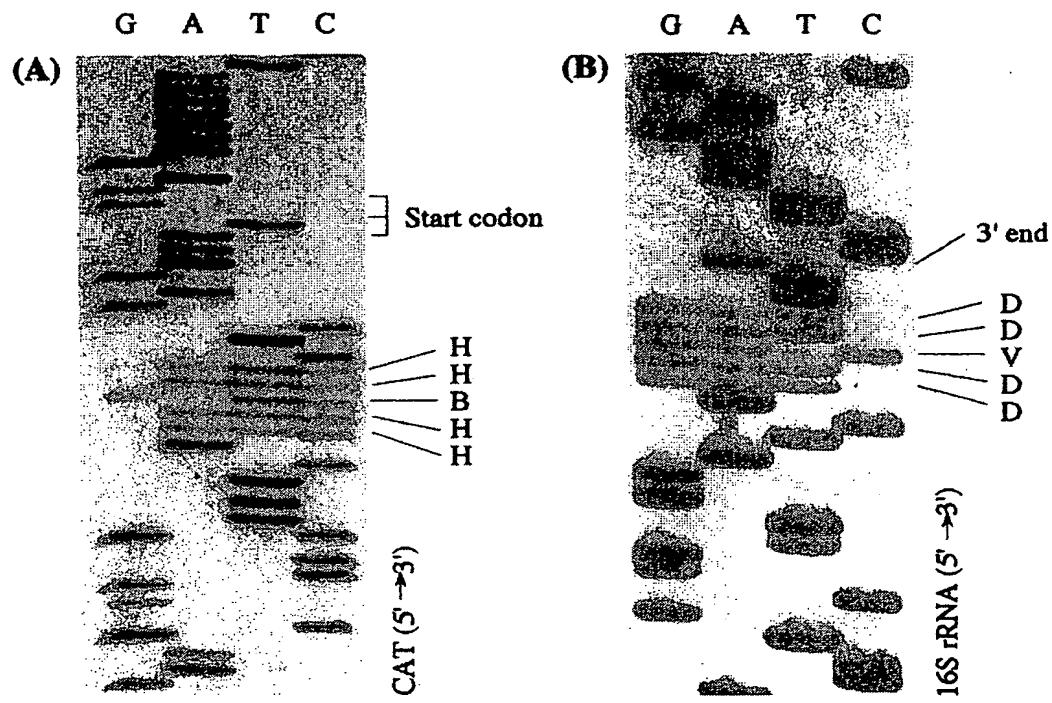


Fig. 3

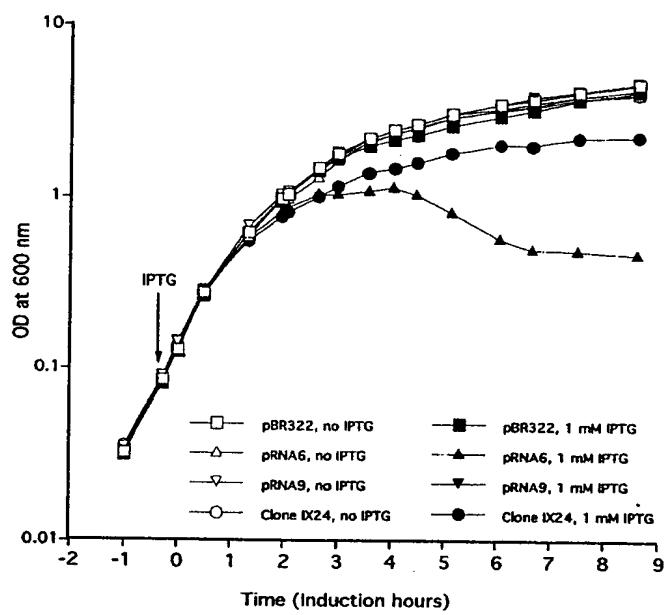


Fig. 4

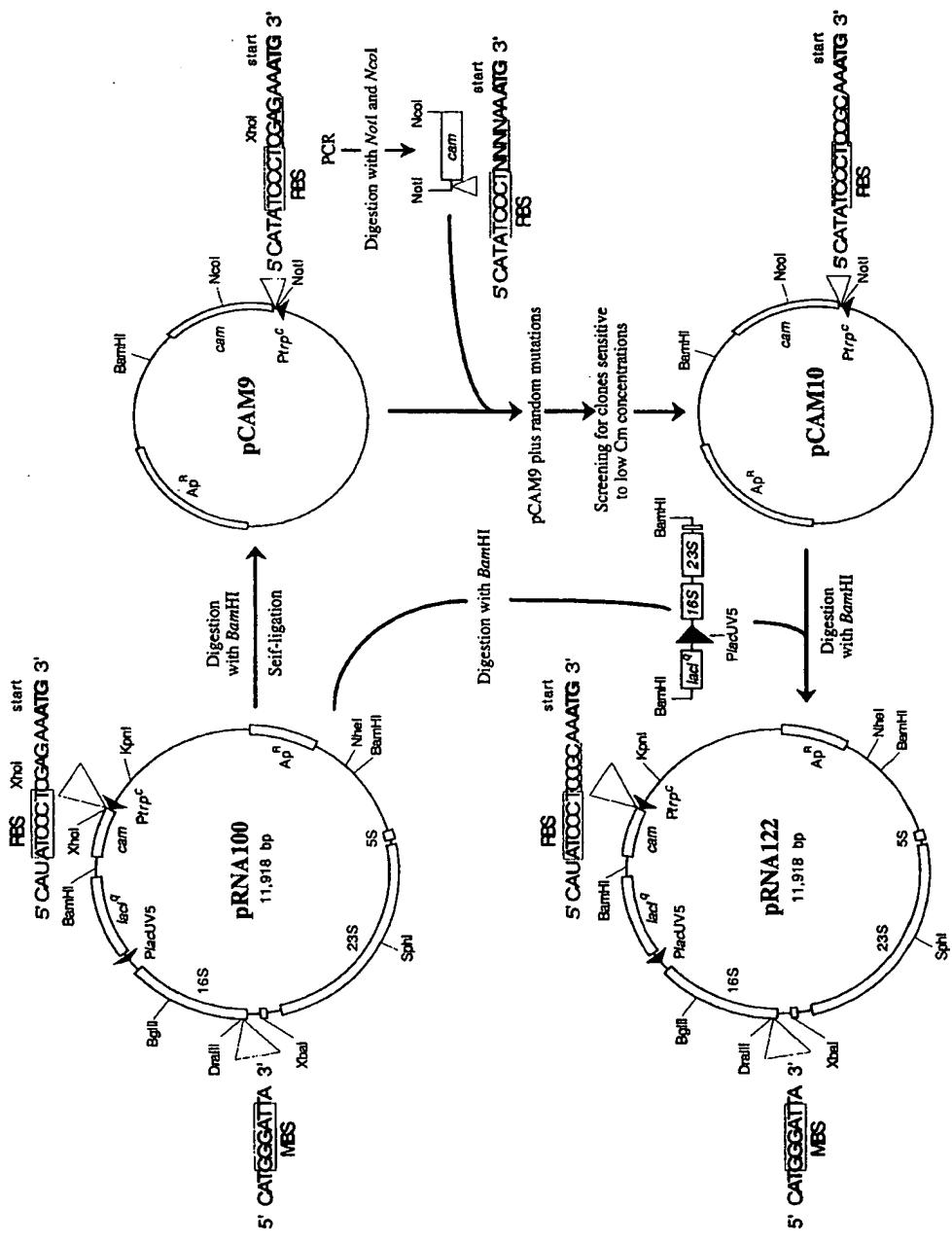


Fig. 5

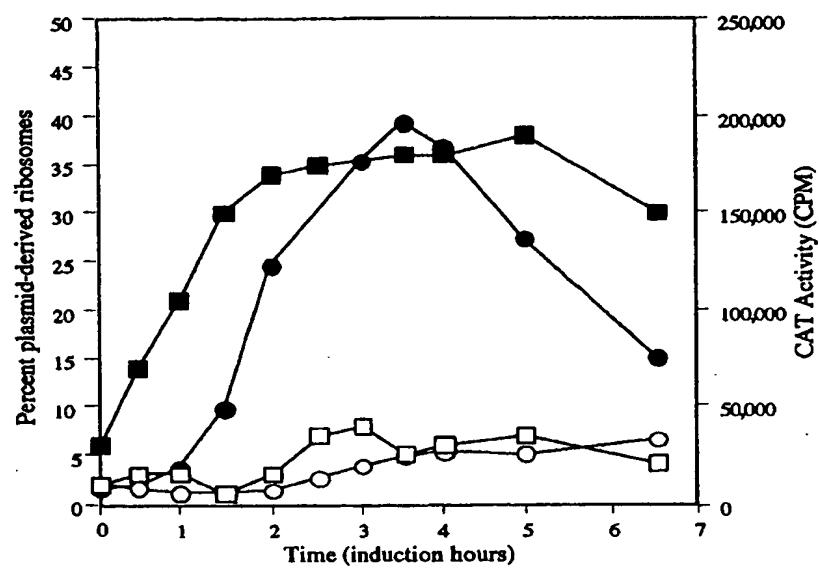


Fig. 6

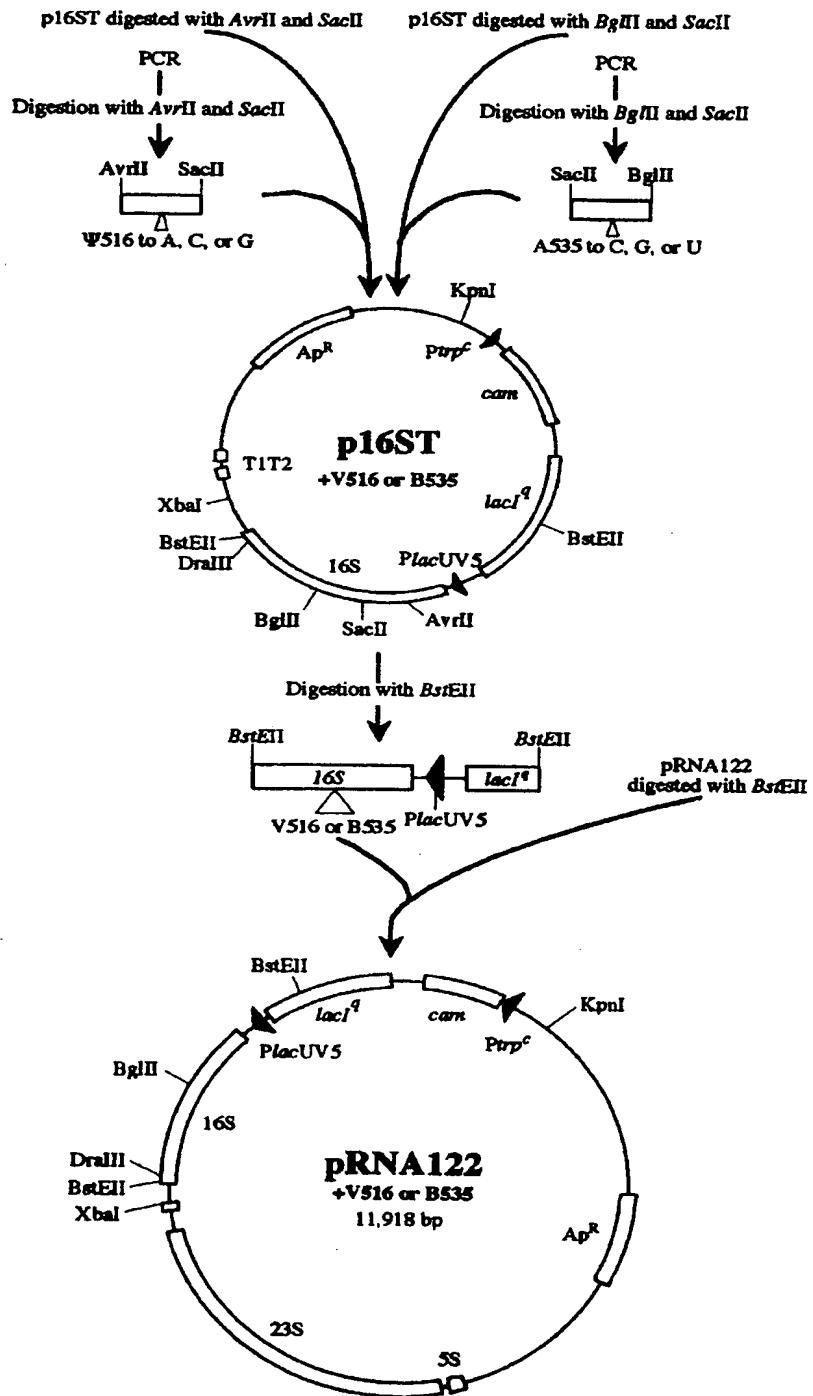


Fig. 7

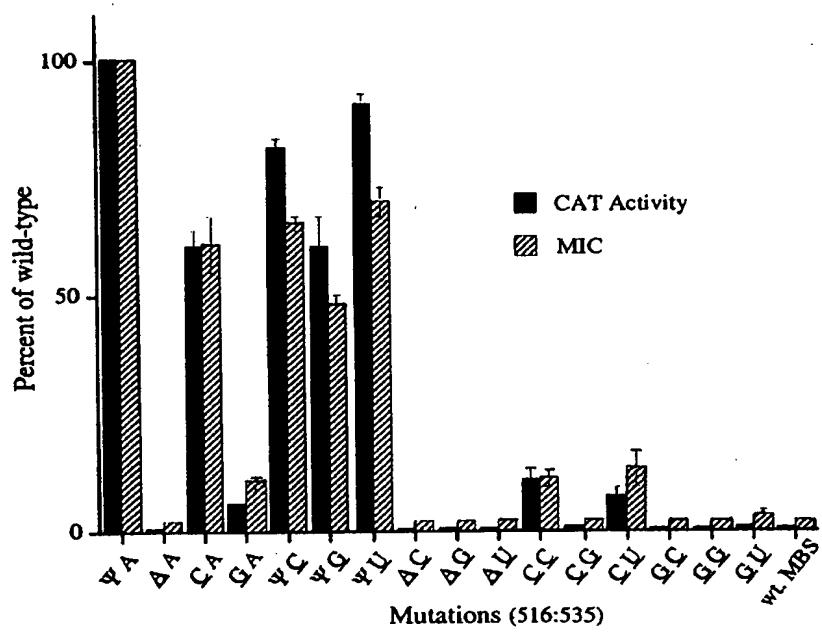


Fig. 8

Oligo	Sequence (5' to 3')	Used for
OL2 IL2	ATAGGGGTTCGGGACATT CTGAGCCCTCTGAAAGCGCCG CAACTAAAAATAAGCCCGT AGT AATCTGTTACT GGGGCGCTTCAAGGGCTCGA GAAATGGAGAAAAAAATCACT GGCGCTAGCCGGCAGGCTGTTG ACAATTAACTATGAACTAAGT TAATGTGTGGAGC GCCGCTTCACACATTAACATA GTTCGATGATAATTGTCAACAG CTCGCCGGCTAGC TCGAGGCACACTGAAAGC GGCGCTTCAGTGTGC GTCATAGGGGGCCGCTGTGTA ATTGTTATCGCGCTCACAACTCC ACACATTATCGAGGCCGAAAGC TGGGATCGACACCATCGAATGG TGCAAAACCTT GAAGGGATCGGGCGAAAGATGTTT CTCTGG GGGGCCGCTAAATAATTCT GACC CACAAGGCTTCGACCTGAGCGT CAGCTTC AAAATTAAAGCGGCCGCTG AGAAAAAGCGAAAGC GGCGACTTCACTCACAAAC GTCGAAGCTGGTAACCGTAGGG GAACCTGCGGGTGGATCACACAC TTACCTTAAAGAAAGCGTAC TCATATCCCTNNNNAAATGGAG AAAAAAATC CAGCACCTTGTGGCCTTGC	Primer cam from -268 to -249 Creating a <i>NotI</i> in the upstream of cam
OR2 IR2	AATCTGTTACT GGGGCGCTTCAAGGGCTCGA GAAATGGAGAAAAAAATCACT GGCGCTAGCCGGCAGGCTGTTG ACAATTAACTATGAACTAAGT TAATGTGTGGAGC GCCGCTTCACACATTAACATA GTTCGATGATAATTGTCAACAG CTCGCCGGCTAGC TCGAGGCACACTGAAAGC GGCGCTTCAGTGTGC GTCATAGGGGGCCGCTGTGTA ATTGTTATCGCGCTCACAACTCC ACACATTATCGAGGCCGAAAGC TGGGATCGACACCATCGAATGG TGCAAAACCTT GAAGGGATCGGGCGAAAGATGTTT CTCTGG GGGGCCGCTAAATAATTCT GACC CACAAGGCTTCGACCTGAGCGT CAGCTTC AAAATTAAAGCGGCCGCTG AGAAAAAGCGAAAGC GGCGACTTCACTCACAAAC GTCGAAGCTGGTAACCGTAGGG GAACCTGCGGGTGGATCACACAC TTACCTTAAAGAAAGCGTAC TCATATCCCTNNNNAAATGGAG AAAAAAATC CAGCACCTTGTGGCCTTGC	Primer cam from 473 to 492 Creating a <i>NotI</i> in the upstream of cam
TRP'-T	Promoter trp ^c , top strand	
TRP'-B	Promoter trp ^c , bottom strand	
SD*-B SD*-T lacU	Mutated RBS for pCAMS; top strand Mutated RBS for pCAMS; bottom strand Creating a <i>NotI</i> and <i>PlacUV5</i> mutation in the 3' end of lacI	
lacL	Creating a <i>BamHI</i> and <i>lacI</i> mutation in the 5' end of lacI	
OL4	Primer 16S rRNA from -707 to -689; creating a <i>BamHI</i> in the 5' end of 16S rRNA	
IL4	Primer 16S rRNA from -351 to -333; deleting P1P2 and creating a <i>NotI</i> in the 5' end of 16S rRNA	
OR4	Primer 16S rRNA from 745 to 765; creating a <i>HindIII</i> in the middle of 16S rRNA	
IR4	Primer 16S rRNA from -164 to -180; deleting P1P2 and creating a <i>NotI</i> in the 5' end of 16S rRNA	
ASD*-B ASD*-T	Primer rRNA Glu from +8 to +27 Primer 16S from 1504 to +16, mutating the MBS region from C1536UC1538 to A1536CA1538	
Cat-M-Xhol	Primer cam from -39 to +15; creating 4 nucleotide random mutations	
Cat-N-NcoI	Primer cam from 688 to 706	

Fig. 9

Plasmid	Description	Reference
PUC19	Cloning vector	(67)
pBR322	Cloning vector	(73)
pACYC177	Cloning vector	(72)
pKK3535	pBR322 derivative containing intact <i>rrnB</i> operon	(31)
pSPORT1	pUC19 derivative containing <i>lacZ</i>	(57)
pJLS1021	pBR322 derivative containing <i>cam</i>	(58)
pSTL102	pK3535 containing U1192 in 16S rRNA and G2058 in 23S rRNA	(34)
pCAM1	pJLS1021 plus a <i>Nor</i> I site in the upstream of <i>cam</i>	This study
pCAM2	pCAM1 plus <i>PrrpC</i> between <i>Nor</i> I sites in the upstream of <i>cam</i>	This study
pCAM4	pBR322 plus the <i>Nae</i> I fragment of pCAM2 containing <i>cam</i> under <i>PrrpC</i>	This study
pCAM5	pCAM4 containing RBS (5'-GUGUG) of Hui et al. (1) in <i>cam</i>	This study
pCAM9	pCAM5 containing selected RBS (5'-AUCCG) in <i>cam</i>	This study
pCAM10	pCAM9 containing selected upstream sequence of <i>cam</i>	This study
pRNA3	pCAM19 plus <i>lacZ</i> and 5' end of 16S rRNA under <i>P lacUV5</i>	This study
pRNA4	pACYC177 plus <i>lacZ</i> and <i>rrnB</i> with wild-type MBS under <i>P lac UV5</i>	This study
pRNA5	pRNA4 containing MBS (5'-CACAC) of Hui et al. (1) in 16S rRNA	This study
pRNA6	pCAM5 plus the <i>Bam</i> H1 fragment containing <i>lacZ</i> and <i>rrnB</i> from pRNAs	This study
pRNA8	pCAM5 plus the <i>Bam</i> H1 fragment containing <i>lacZ</i> and <i>rrnB</i> from pRNA4	This study
pRNA9	pCAM4 plus the <i>Bam</i> H1 fragment containing <i>lacZ</i> and <i>rrnB</i> from pRNA4	This study
pRNA100	pRNA8 containing selected MBS (5'-GGGGAU) and RBS (5'-AUCCG)	This study
pRNA101	pRNA100 containing U1192 in 16S rRNA	This study
pRNA104	pRNA101 containing U2058 in 23S rRNA	This study
p16S-T	pUC19 derivative containing <i>cam</i> , <i>lacZ</i> and 16S rRNA from pRNA100	This study
pRNA122	pRNA100 containing selected upstream sequence of <i>cam</i> from pCAM10	This study
pRNA170	pRNA122 containing U1192 in 16S rRNA and U2058 in 23S rRNA	This study

Fig. 10

MIC with no induction	MIC with induction						1000
	50	100	200	400	600	700	
50				1	16	6	1
100	1	4	51	45	10	2	
200	3	12	72	72	22	1	
400			4	11	20	3	1
600					1	3	
700						3	
800						1	
1000							

Fig. 11

Clone	RNA sequences	ΔG_{37}^o	MIC		CAT		Induction -/+I
			μg of Crv/ mL	-I	-I	+I	
Random	5' C A R1 R2 R3 R4 R5 C U C G 3' CAT mRNA 3' A U U M5 M4 M3 M2 M1 A C U 5'	16S rRNA kcal/mol	-9.8	500	500	2803 ± 68	2700 ± 196
pRNA9	5' C A <u>G</u> <u>C</u> <u>G</u> <u>C</u> U C G 3' 3' A U <u>C</u> <u>C</u> <u>C</u> A C U 5'	-	-	-	-	-	-
pRNA6	5' C A <u>G</u> <u>G</u> <u>G</u> <u>C</u> U C G 3' 3' A U <u>G</u> <u>C</u> <u>A</u> <u>C</u> A C U 5'	-7.8	100	200	4033 ± 1040	12437 ± 2491	3.1
VII30	5' C A <u>A</u> <u>U</u> <u>C</u> <u>C</u> U C G 3' 3' A U <u>U</u> <u>A</u> <u>G</u> <u>G</u> A C U 5'	-8.4	100	500	6293 ± 706	72206 ± 706	11.5
VII43	5' C A <u>A</u> <u>C</u> <u>A</u> <u>C</u> U C G 3' 3' A U <u>U</u> <u>G</u> <u>G</u> A C U 5'	-8.1	125	500	5603 ± 1011	47667 ± 891	8.5
VII64, VII65	5' C A <u>U</u> <u>A</u> <u>C</u> <u>U</u> C U C G 3' 3' A U <u>U</u> <u>G</u> <u>G</u> A C U 5'	-7.3	100	500	6200 ± 953	37311 ± 3978	6.0
VII29	5' C A <u>U</u> <u>A</u> <u>U</u> <u>C</u> <u>C</u> U C G 3' 3' A U <u>U</u> <u>A</u> <u>G</u> <u>G</u> A C U 5'	-10.9	125	600	7869 ± 416	91153 ± 4003	11.6
VII46	5' C A <u>A</u> <u>A</u> <u>U</u> <u>A</u> <u>C</u> <u>C</u> U C G 3' 3' A U <u>U</u> <u>G</u> <u>G</u> A C U 5'	-7.7	100	500	6431 ± 816	46840 ± 796	7.3
VII77	5' C A <u>C</u> <u>A</u> <u>U</u> <u>A</u> <u>C</u> <u>C</u> U C G 3' 3' A U <u>U</u> <u>G</u> <u>G</u> A C U 5'	-7.7	150	600	6794 ± 650	44358 ± 4841	6.5
VII93	5' C A <u>C</u> <u>C</u> <u>A</u> <u>C</u> <u>C</u> U C G 3' 3' A U <u>U</u> <u>G</u> <u>G</u> A C U 5'	-8.5	100	500	5643 ± 897	24888 ± 2388	4.4
IX24	5' C A <u>U</u> <u>A</u> <u>U</u> <u>C</u> <u>C</u> U C G 3' 3' A U <u>U</u> <u>A</u> <u>G</u> <u>G</u> A C U 5'	-7.3	100	650	7524 ± 263	91809 ± 4542	12.7
IX32	5' C A <u>A</u> <u>C</u> <u>U</u> <u>A</u> <u>C</u> <u>C</u> U C G 3' 3' A U <u>U</u> <u>G</u> <u>G</u> A C U 5'	-7.7	100	500	5783 ± 971	32164 ± 5862	5.6
IX67	5' C A <u>U</u> <u>A</u> <u>C</u> <u>C</u> U C G 3' 3' A U <u>U</u> <u>G</u> <u>G</u> A C U 5'	-8.0	125	600	6063 ± 787	24531 ± 3009	4.1

Fig. 12

Clone	RNA sequences		MIC (μ g/ml)	
	Mutated positions	5' CAUAUCCUNNNNAAAUUG3' CAT mRNA 3'AUUAGGGUACUAGG5'	16S rRNA	
PRNA100		5' C A U A U C C C U C G A G A A A U G 3' 3' A U U A G G G U A C U A G G 5'	100	650
PRNA100 + wt MBS		5' C A U A U C C C U C G A G A A A U G 3' 3' A U U C C C U C G A G A A A U G 5'	50	50
PRNA122		5' C A U A U C C C U C G C G A A A U G 3' 3' A U U A G G G U A C U A G G 5'	50	600
PRNA122 + wt MBS		5' C A U A U C C C U C G C G A A A U G 3' 3' A U U C C C U C G C G A A A U G 5'	10	10
PRNA125		5' C A U A U C C C U C G C G A A A U G 3' 3' A U U A G G G U A C U A G G 5'	80	600
PRNA127		5' C A U A U C C C U C G C G A A A U G 3' 3' A U U A G G G U A C U A G G 5'	50	600
PRNA128		5' C A U A U C C C U C G C G A A A U G 3' 3' A U U A G G G U A C U A G G 5'	50	600

Fig. 13

Residue at 516	Percent plasmid-derived 30S in			% CAT
	30S peak	70S peak	Crude ribosomes	
Ψ	46.5 ± 3.6	53.0 ± 4.5	47.8 ± 2.8	100
A	54.2 ± 5.4	10.6 ± 1.4	37.5 ± 3.9	0
C	51.8 ± 0.2	27.1 ± 2.9	42.9 ± 5.8	59.4
G	67.5 ± 6	8.8 ± 0.9	44.1 ± 5.2	6.3

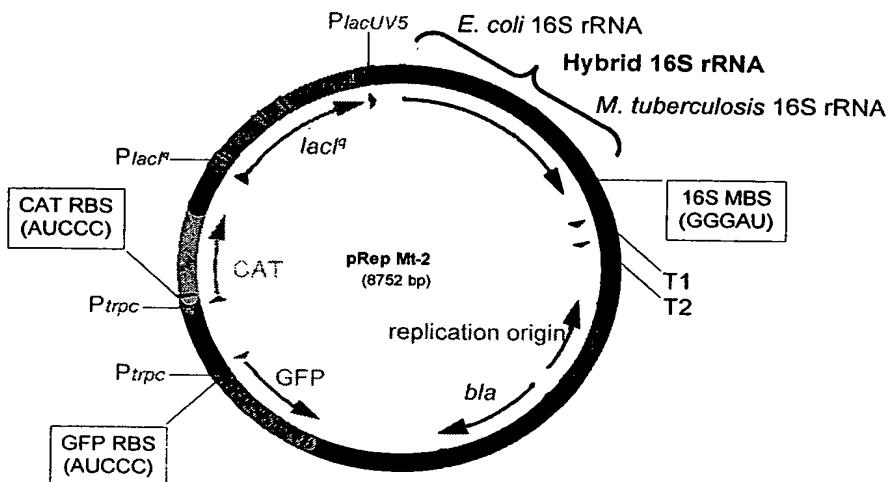
Fig. 14

Clone	Alignment of CAT mRNA and 16S rRNA										MIC (μ g of Cm/mL)	$\Delta G_{\text{f}}^{\circ}$ (kcal/mol)
	Random	5' C A R1 R2 R3 R4 R5	C U C G	3' CAT mRNA	3' A U U M2 M4 M3 M2 M1	A C U 5'	16S rRNA	no IPTG	1 mM IPTG			
wild-type		5' C A Q Q A Q Q C U C G 3'						500	500		-9.8	
		3' A U U C C C U G C A C U 5'										
1		5' C A A U G G C C U C C G 3'						100	400		-8.3	
		3' A U U A Q Q G A C U 5'										
2		5' C A U A G C C U C U C G 3'						50	100		-4	
		3' A U U G G G U A A C U 5'										
3		5' C A C A Q U C C U C C G 3'						50	100		-1.9	
		3' A U U A G G A Q A C U 5'										
4		5' C A A A A C C A C U C G 3'						50	100		-4.1	
		3' A U U U A G U Q A C U 5'										
5		5' C A U A G G C C U C C G 3'						50	100		-7.6	
		3' A U U G G G U A A C U 5'										
6		5' C A U G U U G C U C G 3'						50	100		-7.4	
		3' A U U G G G A G Q A C U 5'										
7		5' C A A U U A U C U C G 3'						50	100		-3.1	
		3' A U U U U A A Q A C U 5'										
8		5' C A Q A G A A C U C G 3'						100	200		-3.6	
		3' A U U Q A Q U A A C U 5'										
9		5' C A A A G U U C U C G 3'						100	200		-0.6	
		3' A U U Q A Q U A A C U 5'										
10		5' C A A U U Q A C U C G 3'						100	400		-7.7	
		3' A U A A Q U Q A C U 5'										
11		5' C A A C Q U Q A C U C G 3'						100	200		-7.1	
		3' A U U Q U Q A Q A C U 5'										
12		5' C A A Q Q Q A C U C G 3'						50	100		-6	
		3' A U U A Q Q G U A C U 5'										
13		5' C A U Q Q U U C U C G 3'						50	200		-2.2	
		3' A U U Q A Q A A A C U 5'										
14		5' C A Q A Q Q A C U C G 3'						50	100		-4.7	
		3' A U U U U Q Q U A C U 5'										
15		5' C A Q Q Q A Q C U C G 3'						50	200		-7	
		3' A U U Q Q Q A A A C U 5'										
16		5' C A U Q Q Q A C U C G 3'						50	100		-7.3	
		3' A U U Q Q Q Q A A C U 5'										
17		5' C A A A Q U Q C U C G 3'						50	100		0.8	
		3' A U U A Q U Q A U A C U 5'										
18		5' C A U A Q A U C U C G 3'						50	100		-2.1	
		3' A U U U Q A Q A A C U 5'										
19		5' C A A Q U U C U C G 3'						50	200		-5.6	
		3' A U U A Q A Q Q A O U 5'										
20		5' C A A A A U A U C U C G 3'						200	500		-6.2	
		3' A U U U A Q A Q A C U 5'										
21		5' C A U A C C U C U C G 3'						200	500		-7.3	
		3' A U U Q Q A Q U A C U 5'										
22		5' C A U A Q Q U A C U C G 3'						100	200		0.3	
		3' A U U U A Q Q Q A U C U 5'										
23		5' C A A U C Q A C U C G 3'						200	400		-10.6	
		3' A U U A Q Q Q A C U 5'										
24		5' C A Q A Q A U C U C G 3'						100	200		-0.2	
		3' A U U U U Q Q A C U 5'										

Fig. 15

Clone	Alignment of CAT mRNA and 16S rRNA											MIC (μ g of Cm/mL)	ΔG_f° (kcal/mol)	
	5' C A R1 R2 R3 R4 R5 C U C o 3'	CAT mRNA	3' A U U U R2 R4 R3 R2 R1 A C U 5'	16S rRNA	no IPTG	1 mM IPTG								
Random														
25	5' C A U A Q Q A C U C G 3'		3' A U U A Q Q Q U A C U 5'		200	400								-6.8
26	5' C A A Q U A A C U C G 3'		3' A U U Q U Q Q A C U 5'		100	200								-3.4
27	5' C A A A U A U C U C G 3'		3' A U U A U G Q A C U 5'		100	400								-5.3
28	5' C A A A U A U C U C G 3'		3' A U U A Q A Q Q A C U 5'		200	400								-1.6
29	5' C A Q U Q Q U C U C G 3'		3' A U U A Q Q Q A C U 5'		50	100								-9.1
30	5' C A U A U U Q C U C G 3'		3' A U U A A Q Q U A C U 5'		100	400								-5.3
31	5' C A A A C C U A C U C G 3'		3' A U U A Q Q A C U 5'		50	200								-3.1
32	5' C A A A U Q Q A C U C G 3'		3' A U U A Q Q Q A C U 5'		100	400								-4.5
33	5' C A A Q Q Q Q C C U C G 3'		3' A U U Q Q Q A Q A C U 5'		100	400								-7.2
34	5' C A A Q Q A U C U C G 3'		3' A U U Q U A Q A C U 5'		200	400								-8
35	5' C A U Q Q Q A C U C G 3'		3' A U U A U Q Q Q A C U 5'		50	200								-5
36	5' C A Q U Q A U C U C G 3'		3' A U U A Q Q A Q A C U 5'		200	500								-3.9
37	5' C A U A U Q Q C U C G 3'		3' A U U A Q Q Q A C U 5'		100	500								-8.4
38	5' C A A A Q A Q C U C G 3'		3' A U U Q Q A Q A C U 5'		150	500								-8.1
39	5' C A A Q Q A A C U C G 3'		3' A U U Q U Q A Q A C U 5'		100	400								-5.7
40	5' C A U Q U A U C U C G 3'		3' A U U A Q A Q Q A C U 5'		100	400								-6.2
41	5' C A U A Q Q U C U C G 3'		3' A U U Q Q A Q U A C U 5'		100	500								-7.3
42	5' C A U A U A A C U C G 3'		3' A U U A Q Q A A C U 5'		200	500								-3.6
43	5' C A A A U A Q C U C G 3'		3' A U U Q Q A Q U A C U 5'		100	500								-7.7
44	5' C A Q A U A Q C U C G 3'		3' A U U Q Q A Q U A C U 5'		150	600								-7.7
45	5' C A Q Q Q A Q C U C G 3'		3' A U U Q Q A Q A A C U 5'		100	500								-8.5
46	5' C A U A U Q Q C U C G 3'		3' A U U Q Q Q Q A C U 5'		100	700								-7.3
47	5' C A A Q U A Q C U C G 3'		3' A U U Q Q Q A Q U A C U 5'		100	500								-7.7
48	5' C A U A A A Q C U C G 3'		3' A U U Q Q Q A Q A C U 5'		200	600								-8

Fig. 16



Nucleotide	Description
1-931	part of 16S rRNA from <i>Escherichia coli</i> rrmB operon
932-1542	part of 16S rRNA from <i>Mycobacterium tuberculosis</i> rrm operon
1536-1540	16S MBS (message binding sequence) GGGAU
1791-1834	terminator T1 of <i>Escherichia coli</i> rrmB operon
1965-1994	terminator T2 of <i>Escherichia coli</i> rrmB operon
3054-2438	replication origin
3214-4074	bla (β -lactamase; ampicillin resistance)
5726-4992	GFP (Green Fluorescent Protein)
5738-5734	GFP RBS (ribosome binding sequence) AUCCC
5795-5755	trpc promoter
6270-6310	trpc promoter
6327-6331	CAT RBS (ribosome binding sequence) AUCCC
6339-6998	cam (chloramphenicol acetyltransferase; CAT)
7307-7384	lacI ^q promoter
7385-8467	lacI ^q (lac repressor)
8510-8551	lacUV5 promoter

Fig. 17

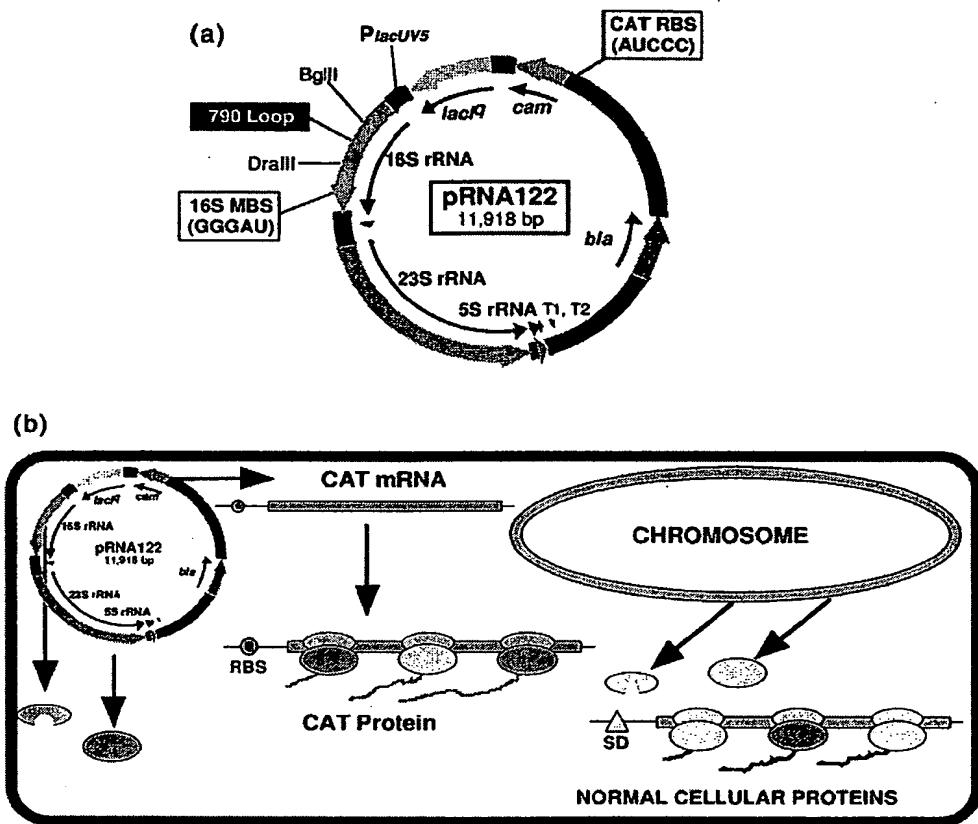


Fig. 18

Fig. 19

Nucleotide	787	788	789	790	791	792	793	794	795
<i>A. Nucleotide distribution of functional mutants^a</i>									
A	<u>54</u>	24	0	<u>69</u>	0	<u>15</u>	18	<u>35</u>	16
C	2	16	0	8	0	24	26	5	<u>34</u>
G	22	21	0	1	<u>78</u>	16	4	9	7
U	0	<u>17</u>	<u>78</u>	0	0	23	<u>30</u>	29	21
Consensus	R	N	U	M	G	N	H	W	H
<i>B. Nucleotide distribution in all known bacteria^b</i>									
A	<u>573</u>	0	0	<u>578</u>	1	<u>578</u>	0	<u>577</u>	0
C	3	0	0	0	1	0	0	1	<u>578</u>
G	1	0	0	0	<u>576</u>	0	3	0	0
U	1	<u>578</u>	<u>578</u>	0	0	0	<u>575</u>	0	0
Consensus	A	U	U	A	G	A	U	A	C
<i>C. Nucleotide distribution in all known organisms^c</i>									
A	<u>1657</u>	2	1	<u>1648</u>	2	<u>1655</u>	5	<u>1664</u>	1
C	6	1	566	9	1	1	12	1	<u>1665</u>
G	4	0	0	3	<u>1662</u>	7	46	2	0
U	1	<u>1664</u>	<u>1101</u>	7	3	3	<u>1605</u>	1	0
Δ	0	1	0	1	0	2	0	0	2
Consensus	A	U	Y	A	G	A	U	A	C

Fig. 20

Nucleotide ^a		Mean CAT activity ^b	% Mutant 30 S in 30 S peak ^c	30 S in 70 S peak ^c	Thermodynamics ^d ΔG_{37}° (kcal/mol)	T_m (°C)
787	795					
A	C	100	46.1 ± 0.8	41.7 ± 3.3	-3.25	61.8
A	A	83.8 ± 2.5	n.d.	n.d.	-2.90	61.3
C	C	80.5 ± 0.5	n.d.	n.d.	-2.84	60.7
C	U	74.1 ± 3.4	n.d.	n.d.	n.d.	n.d.
A	U	72.1 ± 4.5	74.3 ± 0.5	14.3 ± 1.0	-5.62	75.3
U	U	72.0 ± 2.4	n.d.	n.d.	n.d.	n.d.
G	U	70.5 ± 1.8	56.1 ± 1.4	14.2 ± 0.6	-4.96	68.1
G	C	65.5 ± 2.1	n.d.	n.d.	-2.88	60.6
C	A	53.4 ± 1.0	n.d.	n.d.	n.d.	n.d.
G	G	52.9 ± 0.4	n.d.	n.d.	-3.70	64.9
G	A	46.0 ± 1.4	n.d.	n.d.	n.d.	n.d.
A	G	37.5 ± 0.5	n.d.	n.d.	-3.19	63.5
U	A	36.7 ± 0.4	70.8 ± 7.4	10.1 ± 0.4	-5.82	74.3
U	G	13.5 ± 3.3	57.7 ± 12.1	5.5 ± 3.4	-5.15	69.4
G	C	5.5 ± 1.8	58.3 ± 8.2	5.1 ± 1.3	-7.61	83.4
C	G	1.2 ± 0.1	n.d.	n.d.	n.d.	n.d.

Fig. 21

GACGCCGGGCAAGAGCAACTCGGTCGCCGCATAACACTATTCTCAGAATGACT
 TGGTTGAGTACTCACCAAGTCACAGAAAAGCATCTTACGGATGGCATGACAGT
 AAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATAACACTGCGGCCAAC
 TTACTTCTGACAACGATCGGAGGACCGAAGGGAGCTAACCGCTTTTGACACA
 ACATGGGGGATCATGTAACCTCGCCTGATCGTGGGAACCGGAGCTGAATGA
 AGCCATACCAAAACGACGAGCGTACACCGATGCCTGCAGCAATGGCAAC
 AACGTTGCACAAACTATTAACACTGGCAACTACTTACTCTAGCTTCCCAGGAA
 CAATTAATAGACTGGATGGAGGCGGATAAAAGTTGCAAGGACCACTCTCGCCT
 CGGCCCTCCGGCTGGCTGGTTATTGCTGATAAAATCTGGAGCCGGTGAGCG
 TGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCCCT
 ATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAAT
 AGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACGTCA
 ACCAAGTTACTCATATATACTTAGATTGATTAAAACCTCATTAAATT
 AAAAGGATCTAGGTGAAGATCCTTTGATAATCTCATGACCAAAATCCCTT
 AACGTGAGTTTCGTTCCACTGAGCGTCAGACCCCTAATAAGATGATCTTCT
 TGAGATCGTTGGTCTGCGCGTAATCTCTGCTCTGAAAACGAAAAACCG
 CCTGCAGGGCGGTTTCGAAGGTTCTGAGCTACCAACTTTGAACCGA
 GGTAACGGCTGGAGGAGCGCAGTCACCAAAACTTGTCTTCAGTTAGC
 CTTAACCGGGCGATGACTCAAGACTAACTCCTAAATCAATTACAGTGG
 CTGCTGCCAGTGGCTTTGCATGTCTTCCGGGTTGGACTCAAGACGATAG
 TTACCGATAAGGCGCAGCGGTGGACTGAACGGGGGTTCGTCATACAG
 TCCAGCTGGAGCGAAGTGCCTACCCGGAACCTGAGTGTCAAGCGTGGAAATGA
 GACAAACGCGGCCATAACAGCGGAATGACACCGGTAAACCGAAAGGCAGGA
 ACAGGAGAGCGCACGAGGGAGCCAGGGGAAACGCCCTGGTATCTTAT
 AGTCCTGTCGGGTTCGCCACCACTGATTGAGCGTCAGATTCTGTGATGCTT
 GTCAAGGGGGCGGAGCCTATGGAAAAACGGCTTGCCTGCCGGCCCTCTCACTT
 CCCTGTTAAGTATCTCCTGGCATCTCCAGGAAATCTCCGCCCCGTTCTGAA
 GCCATTCCGCTGCCGCAGTCGAACGACCGAGCGTAGCGAGTCAGTGAGCG
 AGGAAGCGGAATATATCCTGTATCACATATTCTGCTGACGCACCGGTGCAGC
 CTTTTCTCCTGCCACATGAAGCACTCACTGACACCCCTCATCAGTGCAAC
 ATAGTAAGCCAGTATACACTCCGCTAGCATCGCATTCCGACAGCATGCC
 AGTCACTATGGCGTGTGCTAGCGCTATATGCGTTGATGCAATTCTATGCGC
 ACCCGTTCTCGGAGCACTGTCCGACCGCTTGGCCGCCAGTCCTGCTCG
 CTTCGCTACTGGAGCCACTATCGACTACCGCATGGCGACCACACCGT
 CCTGTGGATCCTCTACGCCGGACGCATCGTGGCCGGCCACGATGCGTCCGGC
 GTAGAGGATCTATTAAACGACCCCTGCCCTGAACCGACGACCGGGTCGAATT
 GCTTCGAATTCTGCCATTGCGTTATTACTTACTTATTCACTTATTCACTT
 CCAGGGCTTAAGGGCACCAATAACTGCCCTAAAAAAATTACGCCCGCCCT
 GCCACTCATCGCAGTACTGTTGTAATTCAAGCATTCTGCCGACATGGAA
 GCCATCACAGACGGCATGATGAACCTGAATGCCAGCGGCATCAGCACCTG
 TCGCCTGCGTATAATTGCCCAGGTGAAAACGGGGCGAAGAAGTTGT
 CCATATTGGCCACGTTAAATCAAAACTGGTAAACTCACCCAGGGATTGGC
 TGAGACGAAAAACATATTCTCAATAAACCTTAGGGAAATAGGCCAGGTTT
 TCACCGTAACACGCCACATCTTGCATATATGTGTAGAAACTGCCGGAAAT
 CGTCGTGGTATTCACTCCAGAGCGATGAAAACGTTCACTTGCATGGAA

Fig. 22

AACGGTGTAAACAAGGGTAAACACTATCCCATATCACCAAGCTCACCGTCTTC
 ATTGCCATACGGAACTCCGGATGAGCATTCACTCAGGCGGGCAAGAATGTGAA
 TAAAGGCCGGATAAAACTTGTGCTTATTTCTTACGGTCTTAAAAAGGCC
 GTAATATCCAGCTGAACGGTCTGGTTAGGTACATTGAGCAACTGACTGAA
 ATGCCTCAAAATGTTCTTACGATGCCATTGGATATATCACGGTGGTATAT
 CCAGTGATTCTTCTCCATTCTCGAGCACACTGAAAGCGGCCCTTCACA
 CATTAAACTAGTCGATGATTAATTGTCAACAGCTGCCCTATATGCCTTGA
 TGCAATTCTATGCGCACCGTTCTGGAGCACTGTCCGACCGCTTGGCCGC
 CGCCCAGTCCTGCTCGCTCGACTTGGAGCCACTATCGACTACGCGATCAT
 GGCGACCACACCCGCTGTGGATCCCAGACGAGTTAAGTCACCATACGTTA
 GTACAGGTTGCCACTCTTGGCAGACGCAGACCTACGGTACAATAGCGAA
 GCGGTCTGGTATTCTATGTTAAAAAAACTGTGCGATAGCCAAAACGGCAC
 TCTTGGCAGTTAAGCGCACTGCTGCCTGCGCAGTCAACAGAATCAAC
 ATAAGCGAAAACCGCTGTAAATTCTACGCCATAAGCACCAATATTCTGGATA
 GGTGATGAGCCGACACAACCAGGAATTATGCCAGATTCTCCAGACCAGGC
 ATACCTCCTGCAAAGTGTATTTACCAAGACGATGCCAGTTCTCCGGCTCC
 TACATGTAATACCACGCATCAGGTTCATCATGAATTGATACCTTGATCC
 GGTTGATGATCACCGTGCCCGATAGTCCTCAGAAAAAAGTACATTACTCC
 TTCACCCAGAATAAGAACGGGTTGCTCTGCGTGCAGTCAACTGCCAGGCA
 TTGAGTAATTGTTGCTCTCGCACATACAATGTGCTGAGCATTATGATC
 AATGCCAAATGTGTTCCAGGGTTAAGGAGTGGTCATAGCTGCTTCCTGA
 TGCAAAACGAGGCTAGTTACCGTATCTGTGGGGGGATGGCTTGTAGATAT
 GACGACAGGAAGAGTTGTAGAAACGCAAAAGGCCATCCGTCAAGGATGGC
 CTTCTGCTTAATTGATGCCCTGGCAGTTATGCCGGCGTCCCTGCCGCCACC
 CTCCGGGCCGTTGCTCGCAACGTTCAAATCCGCTCCGGCGGATTGTCCTA
 CTCAGGAGAGCGTTACCGACAAACACAGATAAAACGAAAGGCCAGTCT
 TTCGACTGAGCCTTCGTTTATTGATGCCCTGGCAGTCCCTACTCTCGCAT
 GGGGAGACCCCACACTACCATCGCGCTACGGCGTTCACTCTGAGTCGG
 CATGGGGTCAGGTGGACCACCGCGCTACTGCCGCCAGGCAAATTCTGTTT
 ATCAGACCCTCTGCGTTCTGATTTAATCTGTATCAGGCTGAAAATCTCTC
 TCATCCGCCAAACAGCTCGCGTTGTAAGGTTAAGCCTCACGGTTCATTA
 GTACCGGTTAGCTCAACGCATCGCTGCGCTTACACACCCGGCTATCAACGT
 CGTGTCTCAACGTTCTCAGGACCTTAAAGGGTCAGGGAGAAACTCATC
 TCGGGCAAGTTCTGCTTAGATGCTTCAGCACTTATCTCTCGCATTTA
 GCTACCGGGCAGTGCCATTGGCATGACAACCCGAACACCAAGTGATGCGTCCA
 CTCCGGCTCTCGTACTAGGAGCAGCCCCCTCAGTTCTCCAGCGCCCACG
 GCAGATAGGGACCGAAGTGTCTCACGACGTTCTAAACCCAGCTCGCGTACCA
 CTTAAATGGCGAACAGCCATACCCCTGGGACCTACTTCAGCCCCAGGATGT
 GATGAGCCGACATCGAGGTGCCAACACCCGCCGTCGATATGAACCTTGGGC
 GGTATCAGCCTGTTATCCCCGGAGTACCTTTATCCGTTGAGCGATGGCCCTT
 CCATTCAAGAACCCACCGGATCACTATGACCTGCTTCGCACCTGCTCGCGCGT
 CACGCTCGCAGTCAAGCTGGCTTATGCCATTGCACTAACCTCCTGATGTCCG
 ACCAGGATTAGCCAACCTCGTGCCTCCGTTACTCTTACGGAGGAGACCG
 CCCCAGTCAAACACTACCCACCAAGACACTGTCCGCAACCCGGATTACGGGTCAA
 CGTTAGAACATCAAACATTAAAGGGTGGTATTCAAGGTCGGCTCCATGCAG

Fig. 22

Cont.

ACTGGCGTCCACACTCAAAGCCTCCCACCTATCCTACACATCAAGGCTCAA
 TGTTCACTGTCAAGCTATAAGTAAAGGTTACGGGGTCTTCCGTCGGCG
 GGTACACTGCATCTCACAGCGAGTTCAATTCACTGAGTCTCGGGTGGAGA
 CAGCCTGGCCATCATTACGCCATTGTGCAGGTGGAACCTACCCGACAAGG
 AATTTCGCTACCTTAGGACCGTTAGTTACGGCCGCCGTTACCGGGGCTTC
 GATCAAGAGGCTTCGCTTGCCTAACCCCATCAATTAAACCTCCGGCACCGGG
 CAGGCACACCGTATACGTCCACTTCGTGTTGCACAGTGCTGTGTTTT
 AATAAACAGTTGCAGCCAGCTGGTATCTCGACTGATTCAAGCTCCATCCGC
 GAGGGACCTCACCTACATATCAGCGTGCCTCTCCGAAGTTACGGCACCAT
 TTTGCCTAGTCCTCACCCGAGTTCTCTCAAGCGCCTGGTATTCTACCTG
 ACCACCTGTGCGGTTGGGTACGATTGATGTTACCTGATGCTTAGAGGCT
 TTTCCTGGAAGCAGGGCATTGTTGCTTCAGCACCGTAGTGCTCGTCATCAC
 GCCTCAGCCTGATTTCGGATTGCCTGGAAAACCAGCCTACACGCTTAA
 ACCGGGACAACCGTCGCCCGGCCAACATAGCCTCTCCGTCCCCCTCGCA
 GTAACACCAAGTACAGGAATATTAAACCTGTTCCCATCGACTACGCCTTCG
 GCCTCGCCTAGGGGTCGACTCACCTGCCGGATTACGTTGGACAGGAAC
 CCTTGGTCTCCGGCGAGCGGGCTTCAACCGCTTATCGTTACTATGTCA
 GCATTGCACCTCTGATACCTCCAGCATGCCACAGCACACCTCGCAGGCT
 TACAGAACGCTCCCTACCCAACAACGCATAAGCGTCGCTGCCAGCTTCG
 GTGCATGGTTAGCCCCGTTACATCTCCGCGCAGGCCACTGACCAAGTGA
 GCTATTACGCTTCTTAAATGATGGCTGCTCTAAGCCAACATCCTGGCTGT
 CTGGGCCTTCCACATCGTTCCACTAACCATGACTTGGGACCTAGCTG
 CGGGTCTGGGTTGTTCCCTCTCACGACGGACGTTAGCACCCGCCGTGTC
 TCCCGTGATAACATTCTCCGGTATTGCACTGGCATGGGTTGGTAAGTCGG
 GATGACCCCCCTGCCGAAACAGTGCCTACCCCCGGAGATGAATTACGAGG
 CGCTACCTAAATAGCTTCGGGGAGAACCAGCTATCTCCGGTTGATTGGC
 CTTCACCCCCAGCCACAAGTCATCCGCTAATTTCACACATTAGTCGGTTCG
 GTCCTCCAGTTAGTGTACCCAACCTCAACCTGCCATGGCTAGATCACCGG
 GTTCGGGCTATACCCCTGCAACTTAACGCCAGTTAAGACTCGGTTCCCTT
 CGGCTCCCTATTGGTTAACCTGCTACAGAATATAAGTCGCTGACCCATTA
 TACAAAAGGTACGCAGTCACACGCCAACGCTGCTCCACTGCTGTACGTA
 CACGGTTCAAGGTTTTCACTCCCCCTGCCGGGGTCTTTCGCTTCC
 TCACGGTACTGGTCACTATCGGTCACTGAGGAGTATTAGCCTGGAGGAT
 GGTCCCCCATATTCAAGACAGGATACCAACACGTTGCTCCGCCACTCATCGAGC
 TCACAGCATGTGCATTGGTGTACGGGGCTGTACCCCTGATCGCGCCCTT
 TCCAGACGCTCCACTAACACACACACTGATTCAAGGCTCTGGCTGCTCCCC
 GTTCGCTGCCGCTACTGGGGAAATCTGGTTGATTCTTCTCGGGGTAC
 TTAGATGTTCAAGTCCCCGGTTGCCCTATTAAACCTATGGATTCAAGTTAAT
 GATAGTGTGTCGAAACACACTGGGTTCCCCATTGGAAATCGCCGGTTATA
 ACGGTTCATATCACCTACCGACGCTATCGCAGATTAGCACGTCCCTCATCG
 CCTCTGACTGCCAGGGCATCCACCGTGTACGCTTAGTCGCTTAACCTCACAA
 CCCGAAGATGTTCTTCGATTCATCGTGTGCGAAAATTGAGAGACTC
 ACGAACAACTCTCGTTGTTCAAGTGGATTCAATTTCAGCTTGATCCAGATT
 AAAGAGCAAAATCTCAAACATCACCGAAGATGAGTTGAGATATTAAAG
 GTCGGCGACTTCACTCACAAACCAGCAAGTGGCGTCCCTAGGGGATTGCA

Fig. 22
Cont.

ACCCCTGTTACCGCCGTGAAAGGGCGGTGTCCTGGGCCTCTAGACGAAGGGG
 ACACGAAAATTGCTTATCACGCGTTGCGTGATATTTCGTGTAGGGTGAGCTT
 TCATTAATAGAAAGCGAACGGCCTTATTCTCTCAGCCTCACTCCAACCGCT
 AACACGCCTGCTTTCACTTCTATCAGACAATCTGTGTGAGCACTACAAAGT
 ACGCTTCTTAAGGTAAAGTGTGTGATCCAACCGCAGGTTCCCTACGGTTACC
 TTGTTACGACTTCACCCCCAGTCATGAATCACAAAGTGGTAAGCGCCCTCCG
 AAGGTTAACGCTACCTCTTGTCAACCCACTCCATGGTGTGACGGCG
 GTGTGTACAAGGCCGGAACGTATTCACCGTGGCATTCTGATCCACGATT
 CTAGCGATTCCGACTTCATGGAGTCGAGTTGCAGACTCCAATCCGGACTACG
 ACGCACTTATGAGGTCCGCTTGCTCTCGCGAGGTCGCTCTCTTGTATGCG
 CCATTGTAGCACGTGTAGCCCTGGTCGTAAGGCCATGATGACTTGACGT
 CATCCCCACCTCCTCCAGTTATCACTGGCAGTCTCCTTGTAGTTCCCGGCC
 GGACCGCTGGCAACAAAGGATAAGGGTGCCTCGTGCCTGGGACTTAACCC
 AACATTCAACAACACGAGCTGACGACAGCCATGCAGCACCTGTCTCACGGTT
 CCCGAAGGCACATTCTCATCTGAAAACCTCCGTGGATGTCAAGACCAAGGT
 AAGGTTCTCGCGTTGCATCGAATTAAACCACATGCTCCACCGCTTGTGCGG
 GCCCCCCGTCAATTCAATTGAGTTAACCTGCGGCCGTACTCCCCAGGCC
 CGACTTAACCGTTAGCTCCGGAAGCCACGCCTCAAGGGCACAACCTCCAAG
 TCGACATCGTTACGGCGTGGACTACCAGGGTATCTAATCCTGTTGCTCCCC
 ACGCTTCGCACCTGAGCGTCAGTCTCGTCCAGGGGCCGCTCGCCACC
 GGTATTCCCTCAGATCTACGCATTACCGCTACACCTGGAATTCTACCC
 CCTCTACGAGACTCAAGCTGCCAGTATCAGATGCAGTTCCAGGTTGAGCC
 CGGGGATTTCACATCTGACTTAACAAACCGCCTCGTGCCTTACGCCAG
 TAATTCCGATTAACGCTTGCACCCCTCCGTATTACCGCGGCTGCTGGCACCGA
 GTTAGCCGGTCTCTCTGCGGGTAACGTCAATGAGCAAAGGTATTAACCT
 TACTCCCTCCTCCCCGCTGAAAGTACTTACAACCGAAGGCCCTCTCATA
 CACCGGGCATGGCTGCATCAGGCTGCGCCCATTGTGCAATATTCCCCACTG
 CTGCCTCCCGTAGGAGTCTGGACCGTGTCTCAGTCCAGTGTGGCTGGTCATC
 CTCTCAGACCAGCTAGGGATCGTCGCCTAGGTGAGCCGTTACCCACCTACT
 AGCTAATCCCCTGCGACATCCGATGGCAAGAGGCCGAAGGTCCCCCTC
 TTTGGTCTTGCACGTTATCGGTATTAGCTACCGTTCCAGTAGTTATCCCC
 CTCCATCAGGCAGTTCCAGACATTACTCACCCGTCCGCCACTCGTCAGCA
 AAGAAGCAAGCTTCTCCTGTTACCGTTGACTTGCATGTGTTAGGCCTGCCG
 CCAGCGTTCAATCTGAGCCATGATCAAACCTTCAATTAAAAGTTGACGCT
 CAAAGAATTAAACTTCGTAATGAATTACGTGTTCACTCTGAGACTTGGTATT
 CATTTCGCTTGCACGTTAAGAATCCGTATCTCGAGTGCCTACACAGAT
 TGTCTGATAAATTGTTAAAGAGCAGTGCCTCGCTTTCTCAGCGGCCGC
 TGTGTGAAATTGTTATCCGCTCACAATTCCACACATTATACGAGGCCGAAGC
 ATAAAGTGTAAAGCCTGGGTGCCTAATGAGTGTGAGCTAACATTAATTG
 CGTTGCCTCACTGCCGCTTCCAGTCGGAAACCTGTGCGTGCAGCTGCAT
 TAATGAATCGGCCAACGCGCGGGAGAGCGGTTGCGTATTGGCGCCAG
 GGTGGTTTCTTCAACCAGTGAGACGGCAACAGCTGATTGCCCTCACCG
 CCTGCCCTGAGAGAGTTGCAGCAAGCGGTCCACGCTGGTTGCCAGCAG
 GCGAAAATCCTGTTGATGGTGGTTGACGGCGGGATATAACATGAGCTGTCT
 TCGGTATCGTCGTATCCCACCTACCGAGATATCCGACCAACGCGCAGCCGG

Fig. 22
Cont.

ACTCGGTAATGGCGCGCATTGCGCCCAGCGCCATCTGATCGTGGCAACCAG
 CATCGCAGTGGAACGATGCCCTCATTCAAGCATTGCATGGTTGTTGAAAA
 CCGGACATGGCACTCCAGTCGCCTCCCGCTATCGGCTGAATTGATT
 GCGAGTGAGATATTATGCCAGCCAGCACGCGAGACGCCAGACAGA
 ACTTAATGGGCCCGCTAACAGCGCGATTGCTGGTGAACCAATGCGACCAGA
 TGCTCCACGCCAGTCGCTACCGCTTCATGGGAGAAAATAACTGTTGA
 TGGGTGTCGGTCAGAGACATCAAGAAATAACGCCGGAACATTAGTCAGG
 CAGCTCCACAGCAATGGCATCCTGGTCATCCAGCGGATAGTTAATGATCAG
 CCCACTGACCCGTTGCGCGAGAAGATTGTGCACCGCCGTTACAGGCTTCG
 ACGCCGCTTCGTTCTACCATCGACACCACGCTGGCACCCAGTTGATCGG
 CGCGAGATTAAATGCCCGACAATTGCGACGGCGTGCAGGGCCAGACT
 GGAGGTGGCAACGCCAATCAGCAACGACTGTTGCCGCCAGTTGTTGCC
 ACGCGGTTGGGAATGTAATTCACTCCGCCATGCCGCTTCACTTTCCG
 CGTTTCGCAAAACGTGGCTGGCTGGTCAACCACGCGGGAAACGGTCTGA
 TAAGAGACACCGGCATACTCTGCACATCGTATAACGTTACTGGTTCACAT
 TCACCACCCCTGAATTGACTCTCTCCGGCGCTATCATGCCATACCGCGAAA
 GGTTTGACCACTCGATGGTGTGGATCCTAGAGCGCACGAATGAGGCCG
 ACAGGAAGCAAAGCTGAAAGGAATCAAATTGGCCGCAGGCGTACCGTGG
 CAGGAACGTCGTGCTGACGCTTCATCAGAAGGGACTGGTGCAACGGAAATT
 GCTCATCAGCTCAGTATTGCCGCTCCACGGTTATAAAATTCTGAAGACG
 AAAGGGCCTCGTCGACCGCTATTAGTTAATGTCATGATAATAAT
 GGTTCTAGACGTCAGGTGGACTTTGGGGAAATGTGCGCGGAACCCCT
 ATTTGTTATTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATA
 ACCCTGATAAAATGCTCAATAATTGAAAAAGGAAGAGTATGAGTATTCAA
 CATTCCGTGTCGCCCTTATTCCCTTTGCGGCATTTGCCCTCCTGTTT
 GCTACCCAGAAACGCTGGTGAAAGTAAAGATGCTGAAGATCAGTTGGGT
 GCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGTAAAGATCCTGAGA
 GTTTCGCCCGAAGAACGTTTCCAATGATGAGCACTTTAAAGTTCTGCTA
 TGTGGCGCGGTATTATCCCGTGT

Fig. 22

Cont.

GATCCTCTACGCCGGACGCATCGTGGCCGGCCACGATGCGTCCGGCGTAGAG
 GATCTATTAAACGACCCCTGCCCTGAACCGACGACCGGGCGAATTGCTTTC
 GAATTCTGCCATTCATCCGCTTATTATCACTTATTCACTCAGGCCTAGCACCAGGC
 GTTTAAGGGCACCAATAACTGCCTTAAAAAAATTACGCCCGCCCTGCCACT
 CATCGCAGTACTGTTGAATTCACTAAGCATTCTGCCGACATGGAAGGCCATC
 ACAGACGGCATGATGAACCTGAATGCCAGCGGCATCAGCACCTGTCGCCT
 TGCCTATAATATTGCCATGGTAAAAACGGGGCGAAGAAGTTGTCCATAT
 TGGCACGTTAAATCAAAACTGGTAAAACCTCAGGGATTGGCTGAGAC
 GAAAAACATATTCTCAATAAAACCCCTTAGGGAAATAGGCCAGGTTTCACCG
 TAACACGCCACATCTTGCAGAATATATGTGTAGAAACTGCCGAAATCGTCGT
 GGTATTCACTCCAGAGCGATGAAAACGTTCACTTGCCTATGAAAACGGT
 GTAACAAGGGTGAACACTATCCCATATCACCAAGCTCACCGTCTTCATTGCC
 ATACGGAATTCCGGATGAGCATTCACTCAGGCCAGAAGAATGTGAATAAAG
 GCCGGATAAAACTTGTGCTTATTTCTTACGGTCTTAAAAAGGCCGTAAT
 ATCCAGCTGAACGGTCTGGTTAGGTACATTGAGCAACTGACTGAAATGCC
 TCAAAATGTTCTTACGATGCCATTGGATATACACGGTGGTATATCCAGT
 GATTTTTCTCCATTGCGGAGGGATATGAAAGCGGCCGCTTCCACACATTA
 AACTAGTTCGATGATTAATTGTCAACAGCTGCCGGCGCACCTCGCTAACG
 GATTCAACACTCCAAGAATTGGAGCCAATCGATTCTGCGGAGAACTGTGAA
 TGCGBAAACCAACCCCTGGCAGAACATATCCATCGCGTCCGCCATCTCCAGC
 AGCCGCACGCCGCATCTGGCAGCGTTGGTCCTGCCACGGTGC
 TGATCGTGCCTGCGTTGAGGACCCGGCTAGGCTGGCGGGTTGCCTAC
 TGGTAGCAGAATGAATCACCGATACCGAGCGAACGTAAGCGACTGCTG
 CTGCAAAACGTCTGCGACCTGAGCAACAAATGAATGGCTTCCGGTTCCGT
 GTTCGTAAAGTCTGGAAACGCGGAAGTCAGCGCCCTGCACCATTATGTTCC
 GGATCTGGGTACCGAGCTCGAATTCACTGGCGTCTTACACGTCGTGA
 CTGGAAAACCCCTGGCGTTACCCAACCTAACGCTTGCAGCACATCCCCCT
 TTCGCCAGGCATCGCAGGATGCTGGCTACCCGTGGAACACACTACATCT
 GTATTAACGAAGCGCTGGCATTGACCCCTGAGTGAATTCTCTGGTCCC
 CATCCATACCGCCAGTTGTTACCCCTCACACGTTCCAGTAACCGGCATGTT
 CATCATCAGTAACCGTATCGTGAGCATCCTCTCGTTACGGTATCATT
 ACCCCCATGAACAGAAATTCCCCCTACACGGAGGCATCAAGTGACCAAAACA
 GGAAAAAAACGCCCTAACATGGCCGCTTATCAGAACGCCAGACATTAACG
 CTTCTGGAGAAACTCAACGAGCTGGACGCCAGAAGACATCTGT
 GAATCGCTTCACGACCACGCTGATGAGCTTACCGCAGCTGCCTCGCG
 TCGGTGATGACGGTAAAAACCTCTGACACATGCAGCTCCGGAGACGGTCAC
 AGCTGTCTGTAAGGGATGCCGGAGCAGACAAAGCCGTCAAGGGCG
 AGCGGGTGTGGCGGGTGTGGGGCGCAGCCATGACCCAGTCACGTAGCGA
 TAGCGGAGTGTATACTGGCTTAACATGCGGCATCAGAGCAGATTGTACTGA
 GAGTGCACCATATGCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAAT
 ACCGCATCAGGCCTTCCGCTTCCGCTCACTGACTCGCTCGCGCTGGTC
 GTTCCGCTGCCGAGCGGTATCAGCTCACTCAAAGCGGTAAACGGTTAT
 CCACAGAACGAGGATAACGCAAGAAAGAACATGTGAGCAAAAGGCCAGC
 AAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTCCATAGGCT
 CGCCCCCTGACGAGCATCACAAAATCGACGCTCAAGTCAGAGGTGGCG
 AAACCCGACAGGACTATAAGATACCAGGCCTTCCCCCTGGAAAGCTCCCTC

Fig. 23

GTGCGCTCTCCTGTTCCGACCCCTGCCGCTTACCGGATACCTGTCCGCCTTCT
 CCCTCGGGAAAGCGTGGCGCTTCTCATAGCTACGCTGTAGGTATCTCAGTT
 CGGTGTAGGTCGTCGCTCCAAGCTGGGCTGTGACGAACCCCCCGTTCA
 GCCCGACCCTGCGCCTTATCCGTAACATATCGTCTGAGTCCAACCCGTA
 AGACACGACTTATGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGA
 GCGAGGTATGTAGGCGGTGCTACAGAGTTCTGAAGTGGTGGCCTAACTACG
 GCTACACTAGAAGGACAGTATTGGTATCTGCGCTCTGCTGAAGCCAGTTAC
 CTTCGGAAAAAGAGTTGGTAGCTCTGATCCGGCAAACAAACCACCGCTGGT
 AGCGGTGGTTTTGTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGAT
 CTCAAGAAGATCCTTGATCTTCTACGGGTCTGACGCTCAGTGGAACGA
 AAACTCACGTTAAGGGATTGGTATGAGATTATCAAAAAGGATCTCACC
 TAGATCCTTTAAATTAAAAATGAAGTTAAATCAATCTAAAGTATATAG
 AGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTC
 AGCGATCTGCTATTCGTTACCCATAGTTGCCTGACTCCCCGTCGTAGA
 TAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACC
 GCGAGACCCACGCTCACCGGCTCCAGATTATCAGCAATAAACCAAGCCAGCC
 GGAAGGGCCGAGCGCAGAAGTGGCCTGCAACTTATCCGCCTCCATCCAGT
 CTATTAATTGTTGCCGGAAAGCTAGAGTAAGTAGTTGCCAGTTAATAGTT
 GCGCAACGTTGTTGCCATTGCTGCAGGCATCGTGGTGTACGCTCGTGT
 GTATGGCTTCATTCACTCCGGTTCCAACGATCAAGGCGAGTTACATGATC
 CCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTCGTCCTCGATCGTTGTCA
 GAAGTAAGTTGGCCCGAGTGTATCACTCATGGTTATGGCAGCACTGCATAA
 TTCTCTACTGTATGCCATCCGTAAGATGCTTTCTGTGACTGGTGAGTACT
 CAACCAAGTCATTCTGAGAATAGTGTATGCCGACCGAGTTGCTCTGCC
 GGCCTCAACACGGATAATACCGGCCACATAGCAGAACTTAAAAGTGCTC
 ATCATTGGAAAACGTTCTCGGGGCGAAAACCTCAAGGATCTTACCGCTGT
 TGAGATCCAGTTGATGTAACCCACTCGTGCACCCACTGATCTCAGCATCT
 TTTACTTCAACCAGCGTTCTGGGTGAGCAAAACAGGAAGGCAAAATGCCG
 CAAAAAAAGGAATAAGGGCAGACGGAAATGTTGAATACTCATACTCTCCT
 TTTCAATATTATTGAAGCATTATCAGGGTTATTGTCTCATGAGCGGATACA
 TATTGAATGTATTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTCC
 CCGAAAAGTGCCACCTGACGTCTAAGAAACCAATTATTATCATGACATTAACC
 TATAAAAATAGGCGTATCACGAGGCCCTTCGTCTCAAGAATTCTCATGTT
 GACAGCTTATCATCGATAAGCTTAATGCCGTAGTTATCACAGTTAAATTG
 TAACCGAGTCAGGCACCGTGTATGAAATCTAACATGCGCTCATCGTCATCC
 TCGGCACCGTCACCCCTGGATGCTGTAGGCATAGGCTGGTTATGCCGGTACT
 GCCGGGCCTTGCAGGATATCGTCCATTCCGACAGCATGCCAGTCACAT
 GGCCTGCTGCTAGCGCTATATGCGTTGATGCAATTCTATGCGCACCCGTTCT
 CGGAGCACTGTCGACCGCTTGGCCGCCAGTCCTGCTCGCTTCGCTAC
 TTGGAGCCACTATCGACTACGCGATCATGGCGACCAACCCGTCCTGTGGAT
 CCCAGACGAGTTAACGTCACCATACGTTAGTACAGGTTGCCACTCTTGGCA
 GACGCAGACCTACGGCTACAATAGCGAAGCGGTCTGGTATTGTTAAA
 AATACTGTCGCGATAGCCAAAACGGCACTCTTGGCAGTTAACGCGCACTTGC
 TTGCTGTCGCCAGTTCAACAGAAATCAACATAAGCGAAACTCGCTGTAAATT
 CTACGCCATAAGCACCAATATTCTGGATAGGTGATGAGCCGACACAACCAGG
 AATTAAATGCCAGATTTCAGACCAGGCATACCTCCTGCAAAGTGTATTAA

Fig. 23
Cont.

CCAGACGATGCCAGTTCTCCGGCTCCTACATGTAAATACCACGCATCAGG
 TTCATCATGAATTTCGATACCTTGATCCGGTTGATGATCACCGTGCCCGCAT
 AGTCCTCCAGAAAAAGTACATTACTCCTCACCCAGAATAAGAACGGGTTG
 TCCTTCTCGGGTTGCATACTGCCAGGCATTGAGTAATTGTTGTCGTCTCGG
 CACATACAATGTGCTGAGCATTATGATCAATGCCAAATGTGTTCCAGGGTT
 TAAGGAGTGGTCATAGCTGCTTCCTGATGCAAAAACGAGGCTAGTTACC
 GTATCTGTGGGGGATGGCTGTAGATATGACGACAGGAAGAGAGTTGAGAA
 ACGAAAAAAGGCCATCCGTCAGGATGGCCTCTGCTTAATTGATGCCTGGC
 AGTTTATGGCGGGCGTCCTGCCGCCACCCCTCCGGGCGTTGCTCGCAACG
 TTCAAATCCGCTCCCGCGGATTGTCCTACTCAGGAGAGCGTTACCGACA
 AACAAACAGATAAAACGAAAGGCCAGTCTTCGACTGAGCCTTCGTTTAT
 TTGATGCCTGGCAGTCCCTACTCTCGATGGGGAGACCCACACTACCATC
 GGCCTACGGCGTTCACTCTGAGTTGCGCATGGGTCAGGTGGGACCA
 GCGCTACTGCCGCCAGGCAAATTCTGTTATCAGACCGCTCTGCGTTCTGA
 TTTAATCTGTATCAGGCTGAAAATCTTCTCATCCGCCAAACAGCTCGGC
 GTTGTAAAGGTTAAGCCTACGGTTATTAGTACCGGTTAGCTAACGCATCG
 CTGCGCTTACACACCCGGCTATCAACGTCGTCTTCAACGTTCTCAGG
 ACCCTTAAAGGGTCAGGGAGAACTCATCTGGGCAAGTTGCTGCTTAGAT
 GCTTCAGCACTTATCTCCGCATTAGTACCGGGCAGTGCCATTGGCAT
 GACAACCCGAACACCAAGTGTGCGTCCACTCCGGCTCTCGTACTAGGAGC
 AGCCCCCTCAGTCTCCAGCGCCACGGCAGATAGGGACCGAAGTGTCTCA
 CGACGTTCTAAACCCAGCTCGCGTACCACTTAAATGGCGAACAGCCATACC
 CTTGGGACCTACTTCAGCCCCAGGATGTGATGAGCCACATCGAGGTGCCAA
 ACACCGCCGTCGATATGAACCTTGGGCGGTATCAGCCTGTTATCCCCGGAG
 TACCTTTATCCGTTGAGCGATGGCCCTCCATTAGAACCACCGGATCACTA
 TGACCTGCTTCGCACCTGCTCGCGCGTCACGCTCGCAGTCAAGCTGGCTTA
 TGCCATTGCACTAACCTCCTGATGTCCGACCGAGGATTAGCCAACCTCGTGC
 CCTCCGTTACTCTTAGGAGGAGACCGCCCCAGTCAAACTACCCACCA
 CTGTCGCAACCCGGATTACGGGTCACGTTAGAACATCAAACATTAAAGGG
 TGGTATTCAAGGTCGGCTCCATGAGACTGGCGCCACACTCAAAGCCTC
 CCACCTATCCTACACATCAAGGCTCAATGTCAGTGTCAAGCTATAGTAAAG
 GTTCACGGGGTCTTCCGTTGCCGGTACACTGCATCTCACAGCGAGT
 TCAATTCACTGAGTCTCGGGTGGAGACAGCCTGCCATTACGCCATTC
 GTGCAGGTCGGAACCTACCGACAAGGAATTGCTACCTAGGACCGTTAT
 AGTTACGGCCGCCGTTACCGGGGCTCGATCAAGAGCTCGCTGCGCTAA
 CCCCACATCAATTAACTTCCGGCACCGGGCAGCGTCACACCGTATACGTC
 CTTCGTGTGACAGTGTGTTAAATAAACAGTTGAGCCAGCTGGT
 ATCTCGACTGATTTCAGCTCCATCCGCGAGGGACCTCACCTACATATCAGC
 GTGCCTTCTCCGAAGTTACGGCACCATTGCTAGTTCCCTCACCCGAGTT
 CTCTCAAGCGCCTGGTATTCTCACCTGACCACTGTGTCGGTTGGGTAC
 GATTGATGTTACCTGATGCTAGAGGCTTCTGGAAAGCAGGGCATTGTT
 GCTTCAGCACCGTAGTGCCTCGTCATCACGCCCTAGCCTGATTTCGGGATT
 TGCCTGGAAAACCAAGCCTACACGCTTAAACCGGGACAACCGTCGCCCCGGCCA
 ACATAGCCTTCTCCGTCCCCCTCGCAGTAACACCAAGTACAGGAATATTA
 ACCTGTTCCCATGACTACGCCCTTCGGCCTCGCCTAGGGGTCGACTCACC
 CTGCCCCGATTAACGTTGGACAGGAACCCCTGGTCTCCGGCGAGCGGGCTT

Fig. 23
Cont.

TTCACCCGCTTATCGTTACTTATGTCAGCATTGCACTTCTGATAACCTCCAG
 CATGCCTCACAGCACACCTCGCAGGCTTACAGAACGCTCCCTACCCAACA
 ACGCATAAGCGTCGCTGCCGCAGCTCGGTGCATGGTTAGCCCCGTTACAT
 CTTCCGCGCAGGCCACTCGACCAGTGAGCTATTACGCTTCTTAAATGATG
 GCTGCTTCTAAGCCAACATCCTGGCTGTCTGGGCCTCCACATCGTTCCA
 CTTAACCATGACTTGGGACCTTAGCTGGCGGTCTGGGTTGTTCCCTCTCA
 CGACGGACGTTAGCACCCGCCGTGTCTCCCGTATAACATTCTCCGGTATT
 CGCAGTTGCATCGGGTGGTAAGTCGGGATGACCCCTGCCGAAACAGTG
 CTCTACCCCCGGAGATGAATTACAGGAGCGCTACCTAAATAGCTTCCGGGA
 GAACCAGCTATCTCCGGTTGATTGGCCTTCACCCCCAGCCACAAGTCATC
 CGCTAATTTCACATTAGTCGGTCGGTCCAGTTAGTGTACCCAAACC
 TTCAACCTGCCATGGCTAGATCACCGGGTTCGGGTCTACCGTCAACTT
 AACGCCAGTTAAGACTCGGTTCCCTCGGCTCCCTATTGGTTAACCTG
 CTACAGAATATAAGTCGCTGACCCATTATACAAAAGGTACGCAGTCACACGC
 CTAAGCGTGCTCCACTGCTGTACGTACACGGTTCAAGGTTCTTCACTC
 CCCTCGCCGGGGTTCTTCCGCTTCCCTCACGGTACTGGTTCACTATCGGT
 CAGTCAGGAGTATTAGCCTTGGAGGATGGTCCCCCATATTAGACAGGAT
 ACCACGTGCCCCGCCACTCATCGAGCTCACAGCATGTGCATTGGTAC
 GGGGCTGTCAACCTGTATCGCGCCTTCAGACGCTTCAACTAACACACA
 CACTGATTAGGCTCTGGCTGCTCCCCGTTCGCTCGCCGCTACTGGGGAA
 TCTCGGTTGATTCTTCGCCCCGTTACTTAGATGTTAGTCCAGTTCCCCGGTTC
 GCCTCATTAAACCTATGGATTAGTTAGTAAATGATAGTGTGCGAAACACACTGGG
 TTTCCCCATTGGAAATGCCGGTTATAACGGTTATACACCTTACCGACGC
 TTATCGCAGATTAGCACGTCTCATCGCTCTGACTGCCAGGGCATCCACCG
 TGTACGCTTAGTCGCTAACCTCACACCCGAAGATGTTCTTCGATTAC
 ATCGTGTGCGAAAATTGAGAGACTCACGAACAACTCTCGTTGTTAGTGT
 TTCAATTTCAGCTGATCCAGATTAAAGAGCAAAATCTCAAACATCAC
 CCGAAGATGAGTTGAGATATTAGGTGGCGACTTCACTCACAAACAG
 CAAGTGGCGTCCCCCTAGGGGATTGAACCCCTGTTACGCCGTGAAAGGGCG
 GTGTCCTGGGCCTCTAGACGAAGGGACACGAAAATTGCTTATCACGCGTTG
 CGTGTATTTCGTTAGGGTGGAGCTTACATTAAAGAGCGAACGGCCTT
 ATTCTCTCAGCCTCACTCCCAACCGTAAACGCCCTGCTTCACTTCTATC
 AGACAATCTGTGAGCACTACAAAGTACGCTTAAAGGTAAATCCATGA
 TCCAACCGCAGGTTCCCTACGGTACCTGTTACGACTTCACCCAGTCATG
 AATCACAAAGTGGTAAGGCCCTCCGAAGGTTAAAGCTACCTACTTCTT
 CAACCCACTCCCATTGGTGTGACGGCGGTGTACAAGGCCGGAACGTAT
 TCACCGTGGCATTCTGATCCACGATTACTAGCGATTCCGACTTCATGGAGTCG
 AGTTGCAGACTCCAATCCGGACTACGACCGACTTATGAGGTCCGTTGCTC
 TCGCGAGGTCGCTCTTGTATGCGCCATTGTAGCACGTGTAGCCCTGG
 TCGTAAGGCCATGATGACTTGACGTACCCCCACCTTCCAGTTATCAC
 TGGCAGTCTCCTTGAGTTCCGGGACCGTGGCAACAAAGGATAAGGG
 TTGCGCTCGTTGCAGGACTTAACCAACATTCAACACAGGCTGACGACA
 GCCATGCAGCACCTGTCTACGGTCCGAAGGCACATTCTCATCTGAAA
 ACTTCCGTGGATGTCAAGACCAGGTAAGGTTCTCGCGTTGCATCGAATTAA
 ACCACATGCTCCACCGCTTGTGCGGGCCCCGTCAATTGAGTTAAC
 CTTGCGGCCGTACTCCCCAGGCAGTCACCTAACCGGTTAGCTCCGGAAGCC

Fig. 23
Cont.

ACGCCTCAAGGGACAACCTCCAAGTCGACATCGTTACGGCGTGGACTACC
 AGGGTATCTAATCCTGTTGCTCCCCACGCTTCGCACCTGAGCGTCAGTCTT
 CGTCCAGGGGGCCGCTCGCCACCGGTATTCCCTCCAGATCTACGCATTTC
 ACCGCTACACCTGGAATTCTACCCCCCTACGAGACTCAAGCTGCCAGTA
 TCAGATGCAGTCCCAGGTTGAGCCGGGGATTACATCTGACTTAACAAA
 CCGCCTGCCTGCCTTACGCCCAGTAATTCCGATTAACGCTTGACCCCTCCG
 TATTACCGCGGCTGCTGGCACGGAGTTAGCCGTGCTTCTGCGGGTAAC
 GTCAATGAGCAAAGGTATTAACCTTACTCCCTCCCGCTGAAAGTACTT
 TACAACCCGAAGGCCTTCTTCATACACGCGGCATGGCTGCATCAGGCTGCG
 CCCATTGTGCAATATTCCCCACTGCTGCCTCCGTAGGAGTCTGGACCGTGTC
 TCAGTTCCAGTGTGGCTGGCATCCTCTCAGACAGCTAGGGATCGTCGCT
 AGGTGAGCCGTTACCCCACCTACTAGCTAATCCCACCTGGGACATCCGATG
 GCAAGAGGCCGAAGGTCCCCCTTTGGCTTGCACGTTATGCGGTATTA
 GCTACCGTTCCAGTAGTTATCCCCCTCCATCAGGCAGTTCCCAGACATTAC
 TCACCCGTCCGCCACTCGTCAGCAAAGAAGCAAGCTTCTCCTGTTACCGTTC
 GACTTGCATGTGTTAGGCCTGCCAGCGTTCAATCTGAGCCATGATCAAA
 CTCTCAATTAAAAGTTGACGCTAAAGAATTAAACTCGTAATGAATTAC
 GTGTTCACTCTGAGACTTGGTATTCAATTTCGTCTTGCACGTTAAGAATC
 CGTATCTCGAGTGCCACACAGATTGCTGATAAAATTGTTAAAGAGCAGTG
 CCGCTCGCTTTCTCAGCGGCCGCTGTGAAATTGTTATCCGCTCACAAT
 TCCACACATTACGAGCCGAAGCATAAAAGTGTAAAGCCTGGGGTGCCTAA
 TGAGTGAGCTAACTCACATTAATTGCGTTGCCTCACTGCCGCTTCCAGTC
 GGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGGGGAG
 AGGCGGTTGCGTATTGGCGCCAGGGTGGTTTCTTCAACCAGTGAGAC
 GGGCAACAGCTGATTGCCCTCACCGCTGGCCCTGAGAGAGTTGCAGCAAG
 CGGTCCACGCTGGTTGCCAGCAGGCAGGGAAATCCTGTTGATGGTGGTTG
 ACGCGGGATATAACATGAGCTGCTTCGGTATCGCTGATCCACTACCGA
 GATATCCGCACCAACGCGCAGCCGGACTCGTAATGGCGCGATTGCC
 AGGCCATCTGATCGTGGCAACCAGCATCGCAGTGGAACGATGCC
 TCAGCATTGCAATGGTTGAAACCGGACATGGCACTCCAGTCGCTTCC
 CGTTCCGCTATCGGCTGAATTGAGTGCAGTGAGATATTATGCCAGCCAG
 CCAGACGCGACGCGCCGAGACAGAACTTAATGGGCCGCTAACAGCGCGA
 TTTGCTGGTACCCAATGCGACCAGATGCTCCACGCCAGTCGCGTACCGTC
 TTCATGGGAGAAAATAACTGTTGATGGGTGCTGGTCAGAGACATCAAGA
 AATAACGCCGAACATTAGTGCAGGCAGCTCCACAGCAATGGCATCCTGGT
 CATCCAGCGGATAGTTAATGATCAGCCCACGTGACCCGTTGCGCGAGAAGATT
 GTGCACCGCCGCTTACAGGCTCGACGCCGCTTCGTTCTACCATCGACACCA
 CCACGCTGGCACCCAGTTGATGGCGAGATTAAATGCCGCGACAATTG
 CGACGGCGCGTGCAGGGCAGACTGGAGGGTGGCAACGCCAATCAGCAACGA
 CTGTTGCCCAGTGTGCCCCAGTGTGCCCCAGTGTGCCCCAGTGTGCCCC
 CCATGCCGCTTCACTTTCCCGTTCGAGAAACGTGGCTGGCCTGG
 TTCACCAACGCCAACGGTCTGATAAGAGACACCGGCATACTCTGCGACAT
 CGTATAACGTTACTGGTTACATTCAACCACCGTGAATTGACTCTTCCGGG
 CGCTATCATGCCATACCGCGAAAGGTTGCACCATTCGATGGTGTG

Fig. 23

Cont.

AAATTGAAGAGTTGATCATGGCTCAGATTGAACGCTGGCGGCAGGCCTAAC
 ACATGCAAGTCGAACGGTAACAGGAAGAAGCTTGCCTTGTGACGAGTG
 GCGGACGGGTAGTAATGCTGGAAACTGCCTGATGGAGGGGATAACTA
 CTGGAAACGGTAGCTAATACCGCATAACGTCGCAAGACCAAAGAGGGGAC
 CTTGGGCCTTGCATCGGATGTGCCAGATGGGATTAGCTAGTAGGTGG
 GGTAACGGCTCACCTAGGCGACGATCCCTAGCTGGTCTGAGAGGATGACCAG
 CCACACTGGAACGTGAGACACGGTCCAGACTCCTACGGGAGGCAGCAGTGGG
 GAATATTGACAATGGCGCAAGCCTGATGCAGCCATGCCCGTGTATGAAG
 AAGGCCTCGGGTTGTAAGTACTTCAGCGGGAGGAAGGGAGTAAAGTT
 AATACCTTGCTATTGACGTTACCGCAGAAGAAGCACCAGCTAACCTCGT
 GCCAGCAGCCCGGTAATACGGAGGGTCAAGCGTTAACCGAATTACTGG
 GCGTAAAGCGCACCGCAGGGGTTGTAAGTCAGATGTGAAATCCCCGGCT
 CAACCTGGAACTGCATCTGATACTGGCAAGCTTGTAGTCTCGTAGAGGGGG
 TAGAATTCCAGGTGTAGCGGTGAAATGCGTAGAGATCTGGAGGAATACCGG
 TGGCGAAGGCAGGCCCCCTGGACGAAGACTGACGCTCAGGTGCAAAGCGTG
 GGGAGCAAACAGGATTAGATACCCCTGGTAGTCCACGCCGAAACGATGTCG
 ACTTGGAGGTTGTGCCCTGAGGCGTGGCTTCCGGAGCTAACCGTTAACGTC
 GACCGCCTGGGAGTACGCCGCAAGGTTAAACTCAAATGAATTGACGGG
 GGCCCGACAAGCGGTGGAGCATGTGGTTAACGATGCAACCGAAGAA
 CCTTACCTGGTC
 TTGACATCCACGGAAGTTTCAGAGATGAGAATGTGCCCTCGGAACCGTGA
 GACAGGTGCTGCATGGCTGTCAGCTCGTGTGAAATGTTGGGTTAAG
 TCCCGCAACGAGCGCAACCCCTATCCTTGTGCCAGCGTCCGGCCGGAA
 CTCAAAGGAGACTGCCAGTGATAAACTGGAGGAAGGTGGGATGACGTCAA
 GTCATCATGCCCTACGACCAGGGCTACACACGTGCTACAATGGCGCATAAC
 AAAGAGAAGCGACCTCGCGAGAGCAAGCGGACCTCATAAAGTGCCTCGTAG
 TCCGGATTGGAGTCTGCAACTCGACTCCATGAAGTCGAATCGCTAGTAATC
 GTGGATCAGAATGCCACGGTGAATACGTTCCGGGCTTGTACACACCGCCC
 GTCACACCATTGGGAGTGGGTTGAAAAGAAGTAGGTAGCTAACCTCGGG
 AGGGCGCTTACCACTTGTGATTGACTGGGTTGAAGTCGTAACAAGGTA
 ACCGTAGGGGAAACCTGCCGGTGGATCATGGGATTACCTAAAGAAGCGTACT
 TTGTAGTGCTCACACAGATTGCTGATAGAAAGTGAAGAAGCAAGGCCTTAC
 GCGTTGGGAGTGAGGCTGAAGAGAATAAGGCCGTTGCTTCTATTATGAA
 AGCTCACCCCTACACGAAAATACGCAACCGTGATAAGCAATTTCGTGT
 CCCCTCGTCTAGAGGCCAGGACACGCCCTTCACGGCGTAACAGGGGT
 TCGAATCCCTAGGGGACGCCATTGCTGGTTGTGAGTGAAGTCGCCGAC
 CTTAATATCTAAAACATCTCGGGTGTGAGTTGAGATTTGCTCTTAA
 AAATCTGGATCAAGCTGAAAATTGAAACACTGAACACGAGAGTTGTTGCTG
 AGTCTCTCAAATTTCGCAACACGATGATGAATCGAAAGAAACATCTCGGG
 TTGT
 GAGGTTAAGCGACTAACCGTACACGGTGGATGCCCTGGCAGTCAGAGGCGA
 TGAAGGACGTGCTAATCTGCGATAAGCGTCGGTAAGGTGATATGAACCGTTA
 TAACCGCGATTCCGAATGGGAAACCCAGTGTGTTGACACACACTATCAT
 TAACTGAATCCATAGGTTAATGAGGCGAACCGGGGGACTGAAACATCTAA
 GTACCCCGAGGAAAAGAAATCAACCGAGATTCCCCAGTAGCGCGAGCGA

ACGGGGAGCAGCCCAGAGCCTGAATCAGTGTGTGTTAGTGGAAAGCGTCTG
 GAAAGGCGCGCGATACAGGGTACAGCCCCGTACACAAAAATGCACATGCT
 GTGAGCTCGATGAGTAGGGCGGGACACGTGGTATCCTGTCTGAATATGGGG
 GACCATCCTCCAAGGCTAAATACTCCTGACTGACCGATAGTGAACCACTG
 GTGAGGGAAAGGCAGAAAGAACCCGGCGAGGGGAGTAAAAAGAACCTG
 AAACCGTGTACGTACAAGCAGTGGGAGCACGCTAGGCGTGTACTGCGTAC
 CTTTGTATAATGGGTAGCGACTTATATTCTGTAGCAAGGTTAACCGAATA
 GGGGAGCCGAAGGAAACCGAGTCTTAACGGCGTTAAGTTGCAGGGTAT
 AGACCCGAAACCCGGTGTAGCCATGGGCAGGGTGAAGGTTGGGTAAACA
 CTAACTGGAGGACCGAACCGACTAATGTTAAAAATTAGCGGATGACTGTG
 GCTGGGGGTGAAAGGCCAATCAAACCGGGAGATAGCTGGTCTCCCCGAAA
 GCTATTAGGTAGCGCCTCGTGAATTCACTCCGGGGTAGAGCACTGTTTC
 GGCAAGGGGGTCACTCCGACTTACCAACCGATGCAAACACTGCGAATACCG
 AGAATGTTATCACGGGAGACACACGGCGGGTGCTAACGTCCGTCGTGAAGA
 GGGAAACAAACCA
 GACCGCCAGCTAAGGTCCAAAGTCATGGTTAAGTGGAAACGATGTGGGA
 AGGCCAGACAGCCAGGATGTTGGCTTAGAAGCAGCCATCATTAAAGAAA
 GCGTAATAGCTCACTGGTCGAGTCGGCCTGCGCGGAAGATGTAACGGGGCTA
 AACCATGCACCGAACGCTGCGCAGCGACGCTTATCGTTGTTGGGTAGGGGA
 GCGTTCTGTAAGCCTGCGAAGGTGTGCTGAGGCATGCTGGAGGTATCAGA
 AGTGCAGTGTGACATAAGTAACGATAAAGCGGGTAAAAGCCGCTCGC
 CGGAAGACCAAGGGTCCCTGTCACGTTAATCGGGCAGGGTAGTCGAC
 CCCTAAGGCAGGCCGAAAGGCCTAGTCGATGGGAAACAGGTTAATATTCC
 TGTACTTGGTGTACTGCGAAGGGGGACGGAGAAGGCTATGTTGGCCGGGC
 GACGGTTGTCGGTTAACGCTGAGGCTGGTTCCAGGCAAATCCGGAA
 AATCAAGGCTGAGGCGTGTAGACGAGGCACTCGGTGCTGAAGCAACAAAT
 GCCCTGCTTCCAGGAAAAGCCTCTAACGATCAGGTAACATCAAATCGTACCC
 CAAACCGACACAGGTGGTCAGGTAGAGAATACCAAGGCGCTTGAGAGAACT
 CGGGTGAAGGAACCTAGGCAAAATGGTGCCGTAACTCGGGAGAAGGCACGC
 TGATATGTAGGTGAGGTCCCTCGCGGATGGAGCTGAAATCAGTCGAAGATA
 CAGCTGGCTGCAACTGTTATTAAAAACACAGCACTGTGCAAACACGAAAGT
 GGACGTATACGGTGTGACGCCCTGCCGGTGCCGGAAGGTTAATTGATGGGG
 TAGCGCAAGCGAAGCTCTGATCGAAGCCCCGGTAAACGGCGGCCGTA
 ATAACGGTCCTAACGGTAGCGAAATTCTGTCGGTAAGTTCCGACCTGCAC
 GAATGGCGTAA
 TGATGGCCAGGCTGTCACCCGAGACTCAGTGAATTGAACTCGCTGTGA
 AGATGCAGTGTACCCCGCGCAAGACGGAAAGACCCCGTGAACCTTACTATA
 GCTTGACACTGAACATTGAGCCTGATGTGTTAGGATAGGTGGGAGGCTTG
 AGTGTGGACGCCAGTCTGCATGGAGCCACCTGAAATACCACCCCTTAATG
 TTTGATGTTCTAACGTTGACCGTAATCCGGTTGCGGACAGTGTCTGGTGG
 GTAGTTGACTGGGGCGGTCTCCTCCTAACAGAGTAACGGAGGAGCAGAAG
 GTTGGCTAACCTGGTGGACATCAGGAGGTTAGTGCATGGCATAAGCCAG
 CTTGACTGCGAGCGTGACGGCGCGAGCAGGTGCGAAAGCAGGTCA
 TCCGGTGGTCTGAATGGAAGGGCATCGCTAACGGATAAAAGGTACTCCG
 GGGATAACAGGCTGATACCGCCCAAGAGTTCATATCGACGGCGGTGTTGGC

Fig. 24

Cont

ACCTCGATGTCGGCTCATCACATCCTGGGGCTGAAGTAGGTCCCAAGGGTAT
 GGCTGTTGCCATTAAAGTGGTACCGAGCTGGGTTAGAACGTCGTGAGA
 CAGTCGGTCCCTATCTGCCGTGGCGCTGGAGAACTGAGGGGGCTGCTCC
 TAGTACGAGAGGACCGGAGTGGACGCATCACTGGTGTTCGGGTTGTCATGCC
 AATGGCACTGCCCGTAGCTAAATCGGAAAGAGATAAGTGTGAAAGCATC
 TAAGCACGAAACTGCCCGAGATGAGTTCTCCCTGACCTTAAGGGTCT
 GAAGGAACGTTGAAGACGACGACGTTGATAGGCCGGTGTGAAAGCGCAGC
 GATGCGTTGAGCTAACCGGTTAAATGAACCGTGAGGCTTAACCTTACAACG
 CCGAAGCTGTTGGCGGATGAGAGAAGATTTCAGCCTGATACAGATTAAGA
 TCAGAACGCAGAACGGCTGTGATAAAACAGAATTGCCCTGGCGGAGTAGC
 GCGGTGGTCCCACCTGACCCATGCCAACCTAGAAGTGAAACGCCGTAGCG
 CCGATGGTAGTGTGGGTCTCCCATGCGAGAGTAGGGA
 ACTGCCAGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTT
 CGTTTATCTGTTGTCGGTGAACGCTCTCCTGAGTAGGACAAATCCGCC
 GGGAGCGGATTGAACGTTGCGAAGCAACGGCCCGAGGGTGGCGGGCAGG
 ACGCCGCCATAAACTGCCAGGCATCAAATTAAAGCAGAACGGCCATCCTGAC
 GGATGGCCTTTGCGTTCTACAAACTCTCCTGTCGTATCATCTACAAGCC
 ATCCCCCCCACAGATACGGTAAACTAGCCTCGTTTGCACTCAGGAAAGCAGC
 TATGAACCACTCCTAAACCCCTGGAACACATTGGCATTGATCATAATGCT
 CAGCACATTGTATGGCCTTAAGGGCCAACAATTACTCAATGCCCTGGCAGT
 ATGCAACCGCAGAAGGACAACCCGTTTATTCTGGGTGAAGGAAGTAATGT
 ACTTTTCTGGAGGACTATCGCGGCACGGTGTATCATCAACCGGATCAAAGGT
 ATCGAAATTCTATGATGAACCTGATGCGTGGTATTACATGTAGGAGCCGGAG
 AAAACTGGCATCGTCTGGTAAAATACACTTGCAGGAAGGTATGCCCTGGTCT
 GGAAAATCTGGCATTAATTCCCTGGTTGTCGGCTCATCACCTATCCAGAAT
 ATTGGTGTCTATGGCGTAGAATTACAGCGAGTTGCGCTTATGTTGATTCTGT
 TGAACCTGGCGACAGGCAAGCAAGTGCCTTAACGCCAAAGAGTGCCGTTT
 GGCTATCGCGACAGTATTAAACATGAATACCAGGACCGCTCGCTATTG
 TAGCCGTAGGTCTGCGTCTGCCAAAAGAGTGGCAACCTGTAACGTATGG
 TGACTTAACCGTCTGGATCCACAGGACGGGTGTGGTCGCCATGATCGCGT
 AGTCGATAGTGGCTCCAAGTAGCGAACCGAGCAGGACTGGCGGGCCAA
 AGC
 GGTGGACAGTGCTCCGAGAACGGGTGCGCATAGAAATTGCATCAACGCAT
 ATAGCGCTAGCAGCACGCCATAGTGAATGGCGATGCTGTCGGAATGGACGAT
 ATCCCGCAAGAGGCCGGCAGTACCGGCATAACCAAGCCTATGCCCTACAGC
 ATCCAGGGTGACGGTGCCGAGGATGACGATGAGCGCATTGTTAGATTCTATA
 CACGGTGCCTGACTGCCTAGCAATTAACTGTGATAAAACTACCGCATTAAA
 GCTTATCGATGATAAGCTGCAAAACATGAGAATTCTGAAGACGAAAGGGCC
 TCGTGTACGCCATTAGTTATAGGTTAATGTCATGATAATAATGGTTCTTAG
 ACGTCAGGTGGCACTTTGGGAAATGTGCGCGGAACCCCTATTGTTTATT
 TTTCTAAATACATTCAAATATGATCCGCTCATGAGACAATAACCTGATAAA
 ATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTCCGTG
 TCGCCCTATTCCCTTTGCGGCATTGCGCTCTGTTTGCTCACCCAG
 AAACGCTGGTGAAAGTAAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGG
 GTTACATCGAACTGGATCTCAACAGCGGTAAAGATCCTGAGAGTTTCGCC

Fig. 24
Cont.

CGAAGAACGTTCCAATGATGAGCACTTTAAAGTTCTGCTATGTGGCGCG
 GTATTATCCCGTGTGACGCCGGCAAGAGCAACTCGGTCGCCGCATACACT
 ATTCTCAGAATGACTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTAC
 GGATGGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGAT
 AACACTGCGGCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTA
 ACCGCTTTTGACAAACATGGGGATCATGTAACTCGCCCTGATCGTTGGG
 AA
 CCGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCACGATGCC
 GCAGCAATGGCAACAACGTTGCGCAAACCTATTAACTGGCGAACTACTTACTC
 TAGCTTCCGGCAACAATTAAATAGACTGGATGGAGGCGGATAAAGTTGCAG
 GACCACTCTGCGCTCGGCCCTCCGGCTGGCTGGTTATTGCTGATAAAATCT
 GGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATG
 GTAAGCCCTCCCGTATCGTAGTTACTACACGACGGGGAGTCAGGCAACTAT
 GGATGAACGAAATAGACAGATCGTGAGATAGGTGCCTACTGATTAAGCA
 TTGGTAACTGTCAGACCAAGTTACTCATATATACTTGTAGATTGATTTAAAAC
 TTCATTTAATTAAAAGGATCTAGGTGAAGATCCTTTGATAATCTCATG
 ACCAAAATCCCTAACGTGAGTTTCGTTCCACTGAGCGTCAGACCCCCGTAG
 AAAAGATCAAAGGATCTTCTTGAGATCCTTTCTGCGCGTAATCTGCTGC
 TTGCAAACAAAAAACCACCGCTACCGCGGTGGTTGCTGCGGATCAAG
 AGCTACCAACTCTTCCGAAGGTAACTGGCTTCAGCAGAGCGCAGATACC
 AAATACTGTCCTCTAGTAGCCGTAGTTAGGCCACCACTCAAGAACTCT
 GTAGCACCGCCTACATACCTCGCTTGCTAATCCTGTTACCGTGGCTGCTGC
 CAGTGGCGATAAGTCGTGCTTACCGGGTTGGACTCAAGACGATAGTTACCG
 GATAAGGCGCAGCGGTGGCTGAACGGGGGTTCTGTCACACAGCCCAGC
 TTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGA
 GAAAGCGCCACGCTCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGC
 GGC
 AGGGTCGGAACAGGAGAGCGCACGAGGGAGCTCCAGGGGAAACGCCCTGG
 TATCTTATAGTCCTGTCGGGTTCGCCACCTCTGACTTGAGCGTCGATTTT
 GTGATGCTCGTCAGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCC
 CTTTTACGGTCTGGCTTTGCTGGCTTGTACATGTTCTGCTCACATGTTCTT
 GTTATCCCCTGATTCTGTGGATAACCGTATTACCGCCTTGAGTGAGCTGATA
 CCGCTCGCCGCAGCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAG
 CGGAAGAGCGCCTGATCGGTATTCTCCTACGCATCTGCGGTATTCA
 CACCGCATATGGTGCACCTCAGTACAATCTGCTCTGATGCCGCATAGTTAA
 GCCAGTATACACTCCGCTACGCTACGTGACTGGTCATGGCTGCGCCCCGA
 CACCCGCCAACACCCGCTGACGCCCTGACGGGCTTGTGCTGCTCCGGCAT
 CCGCTTACAGACAAGCTGTGACCGTCTCCGGAGCTGCATGTGTCAGAGGTT
 TTCACCGTCATACCGAAACCGCGAGGCAGCTGCGTAAAGCTCATCAGCG
 TGGTCGTGAAGCGATTACAGATGTCTGCCCTGTTCATCCCGTCCAGCTCGTT
 GAGTTCTCCAGAACGCTTAATGTCGGCTCTGATAAAGCGGGCATGTTA
 AGGGCGGTTTTCTGTTGGTCACTGATGCCCTGTAAGGGGGAAATT
 CTGTTCATGGGGTAATGATACCGATGAAACGAGAGAGAGGATGCTCACGATA
 CGGGTTACTGATGATGAACATGCCCGTTACTGGAACGTTGTGAGGGTAAAC
 AACTGGCGGTATGGATGCGGCGGGACCAAGAGAAAAACTCACTCAGGGTCAAT

Fig. 24
Cont.

GCCAGCGCTTCGTTAATACAGATGTAGGTGTTCCACAGGGTAGCCAGCAGCA
 TCCTCGATGCCTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAGTTGGGT
 AACGCCAGGGTTTCCCAGTCACGACGTTGAAACGACGGCCAGTGAATT
 GAGCTCGGTACCTGCACTGACGACAGGAAGAG
 TTTGTAGAAACGCAAAAGGCCATCCGTAGGATGGCCTCTGCTTAATTG
 ATGCCTGGCAGTTATGGCGGGCGTCCTGCCGCCACCCCTCCGGGCCGTTGC
 TTCGCAACGTTCAAATCCGCTCCCGCGGATTGTCCTACTCAGGAGAGCGT
 TCACCGACAAACAAACAGATAAAACGAAAGGCCAGTCTTCGACTGAGCCTT
 TCGTTTATTGATGCCTGGCAGTTCCCTACTCTCGCATGGGGAGACCCCACA
 CTACCATCGCGCTACGACTAGATTATTGAGCTCATCCATGCCATGTGT
 AATCCCAGCAGCAGTTACAAACTCAAGAAGGACCATGTGGTCACGCTTTCG
 TTGGGATCTTCGAAAGGGCAGATTGTGTCGACAGGTAATGGTTGTCTGGTA
 AAAGGACAGGGCCATGCCAATTGGAGTATTGTTGATAATGGTCTGCTAG
 TTGAACGGATCCATCTCAATGTTGCGAATTGAGTTAGCTTGTGATT
 CATTCTTGTGCTGCCGTGATGTATACATTGTTGAGTTAGTTGACT
 CGAGTTGTGTCGAGAATGTTCCATCTCTTAAAATCAATACCTTTAAC
 TCGATACGATTAACAAGGGTATCACCTCAAACACTGACTCAGCACCGCT
 TGTAGTTCCCGTCATCTTGAAAGATATAGTCGTTCTGTACATAACCTTCG
 GGCATGGCACTCTGAAAAAGTCATGCCGTTCATATGATCCGGATAACGGG
 AAAAGCATTGAACACCATAAGAGAAAGTAGTGACAAGTGTGGCCATGGAA
 CAGGTAGTTCCAGTAGTGCAAATAATTAAAGGTAAGCTTCCGTATGT
 AGCATCACCTTCACCCCTCCACTGACAGAAAATTGTCGCCCCATTAACATCAC
 CATCTAATTCAACAAGAATTGGGACAACCTCCAGTGAAAGTTCTTCT
 CCTTGCTCGCAGTGATTCTTCTCCATTGCGGAGGGATATGAAAGCGGCC
 GCTTCCACACATTAAACTAGTCGATGATTAATTGTCACAGCTGCCGGCG
 GCACCTCGCTAACGGATTCAACCCTCCAAAGAATTGGAGCCAATCGATTCTG
 CGGAGAACTGTGAATGCGGGTACCCAGATCCGGAACATAATGGTGCAGGGC
 GCTGACTTCCCGTTCAGACTTACGAAACACGGAAACCGAACGACCAATT
 ATGTTGTTGCTCAGGTGCGCAGACGTTGAGCAGCAGTCGCTTCACGTTCGC
 TCGCGTATCGGTGATTCTGCTAACAGTAAGGCAACCCGCCAGCCTA
 GCCGGGTCTCAACGACAGGAGCACGATCATGCGCACCCGTGGCCAGGACC
 CAACGCTGCCGAGATGCGCCGCGTGCAGGAGATGGCGGACGCGA
 TGGATATGTTCTGCCAAGGGTTGGTTGCGCATTACAGTTCTCCGAAGAAT
 CGATTGGCTCCAATTCTGGAGTGGTAATCCGTTAGCGAGGTGCCGCC
 GAGCTGTTGACAATTATCGAACTAGTTAATGTTGGAAGCGGGCCGCT
 TTCATATCCCTCCGCAAATGGAGAAAAAAATCACTGGATATACCACCGTTGA
 TATACTCCAAATGGCATCGTAAAGAACATTGAGGCAATTTCAGTCAGTTGCTC
 AATGTACCTATAACCAGACCGTTCAGCTGGATATTACGGCCTTTAAAGAC
 CGTAAAGAAAAATAAGCACAAGTTTATCCGGCCTTATTACATTCTGCC
 GCCTGATGAATGCTCATCCGGAATTCCGTATGGCAATGAAAGACGGTGAGCT
 GGTGATATGGGATAGTGTTCACCCCTGTTACACCGTTCCATGAGCAAAC
 AACGTTTCATCGCTCTGGAGTGAATACACGACGATTCCGGCAGTT
 TACACATATTCGCAAGATGTGGCGTGTACGGTGAACACCTGGCCTATT
 CCCTAAAGGGTTATTGAGAATATGTTTCTCAGCCAATCCCTGGGTGA
 GTTCAACCAGTTGATTAAACGTGGCCAATATGGACAACCTCTCGCCCCC

Fig. 24
Cont.

GTTTCAACCATTGGCAAATATTACGCAAGGCAGAACAGGTGCTGATGCCGC
 TGGCGATTCAAGGTTCATCATGCCGCTGTGATGGCTTCCATGTCGGCAGAAAT
 GCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGCGTAATTT
 TTTAAGGCAGTTATTGGTGCCTAAACGCCTGGTCTACGCCTGAATAAGT
 GATAATAAGCGGATGAATGGCAGAAATTCGAAAGCAAATTGACCCGGTCG
 TCGGTTCAAGGCAGGGCGTTAAATAGCCGCTTATGTCTATTGCTGGTTACG
 GTTTATTGACTACCCGAAGCAGTGTGACCCCTGTGCTCTCAAATGCCTGAGG
 GCAGTTGCTCAGGTCTCCGTGGGGGGAAATAATTAAACGGTATGAGCCTTA
 CGGCAGGACGGATCGTGGCCGCAAGTGGTCCGGCTAGAGGATCCGACACCA
 TCGAATGGTCAAAACCTTCGCGGTATGGCATGATAGCGCCCGGAAGAGA
 GTCAATTCAAGGTGGTGAATGTGAAACCAAGTAACGTTATACGATGTCGAGA
 GTATGCCGGTGTCTTATCAGACCGTTCCCGTGGTGAACCAGGCCAGC
 CACGTTCTCGGAAACCGGGAAAAAGTGGAAAGCGGCGATGGCGGAGCTG
 AATTACATTCCAACCGCGTGGCACACAACACTGGCGGGCAAACAGTCGTTGC
 TGATTGGCGTTGCCACCTCCAGTCTGGCCCTGCACCGCGTCGCAAATTGTC
 GCGCGATTAAATCTCGCGCCGATCAACTGGTGCCAGCGTGGTGTGCA
 T
 GGTAGAACGAAGCGGCGTCGAAGCCTGAAAGCGGCGGTGCACAATCTCT
 CGCGCAACGGGTCACTGGCTGATCATTAACATATCCGCTGGATGACCAGGAT
 GCCATTGCTGTGGAAGCTGCCTGCACTAATGTTCCGGCGTTATTCTTGATGT
 CTCTGACCAAGACACCCATCAACAGTATTATTCTCCATGAAGACGGTACG
 CGACTGGCGTGGAGCATCTGGTCGATTGGTCAACCAGCAAATCGCGCTGT
 TAGCGGGCCCATTAAGTTCTGTCTCGCGCGTCTCGTCTGGCTGGCTGGCAT
 AAATATCTCACTCGCAATCAAATTCAAGCCGATAGCGGAACGGGAAGGCGAC
 TGGAGTGCCATGTCCGGTTTCAACAAACCATGCAAATGCTGAATGAGGGCA
 TCGTCCCAGTGCATGCTGGTGCACGATCAGATGGCGCTGGCGCAAT
 GCGGCCATTACCGAGTCCGGCTCGCGTGGTGCAGGATATCTCGGTAGTG
 GGATACGACGATACCGAAGACAGCTCATGTTATATCCGCCGTCAACCACCA
 TCAAACAGGATTTCGCTGCTGGGCAAACCAAGCGGCTGGCGCTGCTGCA
 ACTCTCTCAGGGCCAGGCAGGTGAAGGGCAATCAGCTGTTCCCGTCTCACTG
 GTGAAAAGAAAAACCAACCCCTGGCGCCAATACGCAAACCGCCTCTCCCCGC
 GCGTTGGCCGATTCAATTGCACTGGCACGACAGGTTCCCGACTGGAAA
 GCGGGCAGTGAGCGCAACGCAATTAAATGTGAGTTAGCTCACTCATTAGGCAC
 CCCAGGCTTACACTTATGCTTCCGGCTCGTATAATGTGAGGAAATTGTGAGC
 GGATAACAATTTCACACAGCGGCCGTGAGAAAAAGCGAAGCGGCACTGCT
 CTTAACAAATTATCAGACAATCTGTGAGGCACTCGAAGGATACGGATTCTT
 AACGTCGCAAGACGAAAAATGAATACCAAGTCTCAAGAGTGAACACGTAAT
 TCATTACGAAGTTAATTCTTGAGCGTCAAACCTTTAACGACGCCAGTGA
 ATTGAGCTCGGTACCTGCACTGACGACAGGAAGAG

Fig. 24
Cont.

AAATTGAAGAGTTGATCATGGCTCAGATTGAACGCTGGCGGCAGGCCTAAC
 ACATGCAAGTCGAACGGTAACAGGAAGAAGCTTCTTGCTGACGAGTG
 GCGGACGGGTGAGTAATGCTGGAAACTGCCTGATGGAGGGGATAACTA
 CTGGAAACGGTAGCTAATACCGCATAACGTCGCAAGACCAAAGAGGGGAC
 CTCGGGCCTTGCATCGGATGTGCCAGATGGGATTAGCTAGTAGGTGG
 GGTAACTGGCTCACCTAGGGCAGCAGTCCAGCTGGTCTGAGAGGATGACCAG
 CCACACTGGAACTGAGACACGGTCCAGACTCCTACGGGAGGCAGCAGTGGG
 GAATATTGCACAATGGGCGCAAGCCTGATGCAGCCATGCCCGTGTATGAAG
 AAGGCCTCGGGTTGAAAGTACTTCAGCGGGAGGAAGGGAGTAAAGTT
 AATACCTTGCTCATTGACGTTACCGCAGAAGAAGCACCAGCTAACTCCGT
 GCCAGCAGCCCGGTAATACGGAGGGTCAAGCGTTAACCGGAAATTACTGG
 GCGTAAAGCGCACCGCAGGGGTTGTTAAGTCAGATGTGAAATCCCCGGCT
 CAACCTGGGAACTGCATCTGATACTGGCAAGCTTGTAGTCTCGTAGAGGGGG
 TAGAATTCCAGGTGTAGCGGTGAAATCGTAGAGATCTGGAGGAATACCGG
 TGGCGAAGGCAGGCCCCCTGGACGAAGACTGACGCTCAGGTGCAAAGCGTG
 GGGAGCAAACAGGATTAGATAACCTGGTAGTCCACGCCGAAACGATGTCG
 ACTTGGAGGTTGTGCCCTTGAGGCGTGGCTCCGGAGCTAACCGTTAACG
 GACCGCCTGGGGAGTACGGCGCAAGGTTAAAACCAAATGAATTGACGGG
 GGCCCGCACAAGCGGGAGCATGTGGATTAAATCGATGCAACCGAAGAA
 CCTTACCTGGGTTGACATGCACAGGACCGTCTAGAGATAGGCCTTCCCTT
 GTGGCCTGTGTGCAGGTGGCATGGCTGTCAGCTCGTGTGAGATG
 TTGGGTTAAGTCCCACAGAGCGCAACCCCTGTCATGTCAGCTCGTGTGAGATG
 AATGGTGGGACTCGTGAGAGACTGCCGGGTCAACTCGGAGGAAGGTGGG
 GATGACGTCAAGTCATCATGCCCTTATGTCAGGGCTCACACATGCTACA
 ATGGCCGGTACAAAGGGCTGCGATGCCCGAGGTTAACGAAATCCTTAAAA
 GCCGGTCTCAGTCGGATCGGGTCTGCAACTCGACCCCGTAAAGTCGGAGT
 CGCTAGTAATCGCAGATCAGCAACGCTGCCGTAAACGTTCCCGGGCTT
 TACACACCAGCCGTCACGTCATGAAAGTCGGTAAACACCCGAAGCCAGTGGCC
 TAACCCCTCGGGAGGGAGCTGCGAAGGTGGATCGCGATTGGGACGAAGT
 CGTAACAAGGTAAACCGTAGGGAACCTGCCGTGGATCATGGGATTACCTTA
 AAGAAGCGTACTTGTAGTGCTCACACAGATTGCTGATAGAAAGTAAAAAG
 CAAGGCCTTACCGCTTGGGAGTGAGGCTGAAGAGAATAAGGCCGTCGCTT
 TCTATTAATGAAAGCTCACCTACACGAAAATATCACGCAACCGCGTATAAG
 CAATTTCGTGTCCTCGTCTAGAGGCCAGGACACCGCCCTTCACGGCG
 GTAACAGGGGTCGAATCCCTAGGGGACGCCACTGCTGGTTGTGAGTGA
 AAGTCGCCGACCTTAATATCTCAAAACTCATCTCGGGTGTGAGATT
 TTGCTCTTAAAAATCTGGATCAAGCTGAAAATTGAAACACTGAACACGAG
 AGTTGTCGTGAGTCTCTCAAATTTCGCAACACGATGATGAATGAAAGAA
 ACATCTCGGGTTGTGAGGTTAACGCAACTAACGCTACACGGTGGATGCCCTG
 GCAGTCAGAGGCAGTGAAGGACGTGCTAATCTCGCATAAGCGTCGGTAAGG
 TGATATGAACCGTTATAACCGCGATTCCGAATGGGAAACCCAGTGTGTT
 TCGACACACTATCATTAACTGAATCCATAGGTTAATGAGGCGAACCGGGGA
 ACTGAAACATCTAAGTACCCGAGGAAAAGAAATCAACCGAGATTCCCCCA
 GTAGCGCGAGCGAACGGGAGCAGCCAGAGCCTGAATCAGTGTGTGTT
 TAGTGGAAAGCGTCTGGAAAGCGCGCAGTACAGGGTACAGCCCCGTACAC

Fig. 25

AAAAATGCACATGCTGTGAGCTCGATGAGTAGGGCGGGACACGTGGTATCCT
 GTCTGAATATGGGGGGACCATCCTCCAAGGCTAAATACTCCTGACTGACCGA
 TAGTGAACCAGTACCGTGAGGGAAAGGCAGAAAGAACCCGGCGAGGGGA
 GTGAAAAAGAACCTGAAACCCTGACGTACAAGCAGTGGGAGCACGCTTAG
 GCGTGTGACTGCGTACCTTTGTATAATGGGTGAGCGACTTATATTCTGTAGC
 AAGGTTAACCGAATAGGGGAGCCGAAGGGAAACCGAGTCTTAACGGCGT
 TAAGTTGCAGGGTATAGACCCGAAACCCGGTGATCTAGCCATGGGCAGGTTG
 AAGGTTGGTAACACTAACCTGGAGGACCGAACCGACTAATGTTGAAAAATT
 AGCGGATGACTGTGGCTGGGGTGAAAGGCCAATCAAACCGGGAGATAGC
 TGGTCTCCCCGAAAGCTATTAGGTAGCGCCTCGTGAATTCATCTCCGGGG
 GTAGAGCACTGTTCGGCAAGGGGGTACCGAACCTAACCGATGCAA
 ACTGCGAATACCGGAGAATGTTATCACGGGAGACACACCGCGGGTGCTAAC
 GTCCGTCGTGAAGAGGGAAACAAACCCAGACCGCCAGCTAAGGTCCAAAGT
 CATGGTTAAGTGGGAAACGATGTGGGAAGGGCCAGACAGCCAGGATGTTGG
 CTTAGAACGAGCCATCATTAAAGAAAGCGTAATAGCTACTGGTCGAGTCG
 GCCTGCGCGGAAGATGTAACGGGCTAAACCATGCACCGAACGCTGCGCAG
 CGACGCTTATGCGTTGTTGGTAGGGAGCGTTCTGTAAGCCTGCGAACGGTG
 TGCTGTGAGGCATGCTGGAGGTATCAGAACGTGCGAATGCTGACATAAGTAAC
 GATAAAAGCGGGTAAAAGCCGCTCGCCGGAAAGACCAAGGGTCTGTCCA
 ACGTTAACGGGGCAGGGTGAGTCGACCCCTAACGGCGAGGCCAACGGCGT
 AGTCGATGGGAAACAGGTTAATATTCTGACTTGGTGTACTGCGAACGGGG
 GGACGGAGAACGGCTATGTTGGCCGGCGACGGTTGTCGGTTAACGGTGT
 AGGCTGGTTTCCAGGAAATCCGGAAAATCAAGGCTGAGGCGTGATGACG
 AGGCACTACGGTGCTGAAGCAACAAATGCCCTGCTCCAGGAAAAGCCTCTA
 AGCATCAGGTAACATCAAATCGTACCCAAACCGACACAGGTGGTCAGGTA
 GAGAATACCAAGGCCTTGAGAGAACCTGGGTGAAGGAACCTAGGCAAAATG
 GTGCCGTAACCTCGGGAGAACGGCACGCTGATATGTAGGTGAGGTCCCTCGCG
 GATGGAGCTGAAATCAGTCGAAGAACCTGGCTGCAACTGTTATTAAA
 AACACAGCACTGTGAAACACGAAAGTGGACGTATACGGTGTGACGCCCTGC
 CCGGTGCCGGAAAGGTTATTGATGGGTTAGCGAACGCAAGCTCTGATCG
 AAGCCCCGGTAAACGGCGCCGTAACCTAACGGCTAACGGTACGGAAAT
 TCCTTGTGCGGGTAAGTCCGACCTGCACGAATGGCGTAATGATGGCCAGGCT
 GTCTCCACCCGAGACTCAGTGAAAATTGAACCTCGCTGTGAAGATGCAGTGTAC
 CCGCGGCAAGACGGAAAGACCCCGTGAACCTTACTATAGCTGACACTGAA
 CATTGAGCCTTGATGTGAGGATAGGTGGGAGGCTTGAAGTGTGGACGCCA
 GTCTGCATGGAGCCGACCTTGAAATACCAACCTTAATGTTGATGTTCTAAC
 GTTGACCCGTAATCCGGGTTGCGGACAGTGTCTGGTGGTAGTTGACTGGG
 GCGGTCTCCTCTAAAGAGTAACGGAGGAGCACGAAGGTTGGCTAACCTGG
 TCGGACATCAGGAGGTTAGTGCACGGCTAACGGCAGCTGACTGCGAGCGT
 GACGGCGCAGCAGGTGCGAACAGCAGGTACAGTGATCCGGTGGTTCTGAA
 TGGAAGGGCCATCGCTAACGGATAAAAGGTACTCCGGGGATAACAGGCTG
 ATACCGCCCAAGAGTTCATATCGACGGCGGTGTTGGCACCTCGATGTCGGC
 TCATCACATCCTGGGGCTGAAGTAGGTCCAAGGGTATGGCTGTTGCCATT
 TAAAGTGGTACGCGAGCTGGGTTAGAACGTCGTGAGACAGTCGGTCCCTA
 TCTGCCGTGGCGCTGGAGAACTGAGGGGGCTGCTCCTAGTACGAGAGGA

Fig. 25
Cont.

CCGGAGTGGACGCATCACTGGTGGTGGGGTGTCAATGCCAATGGCACTGCC
 GGTAGCTAAATGCGGAAGAGATAAGTGTGAAAGCATCTAACGACGAAACT
 TGCCCCGAGATGAGTTCTCCCTGACCCCTTAAGGGCTCTGAAGGAACGTGA
 AGACGACGACGTTGATAGGCCGGGTGTGAAGCGCAGCGATGCGTTGAGCT
 AACCGGTACTAATGAACCGTGAGGCTAACCTACAACGCCGAAGCTGTTT
 GGC GGATGAGAGAAGATTTCAGCCTGATACAGATTAAATCAGAACGCAGA
 AGCGGTCTGATAAAACAGAATTGCGCTGGCGAGTAGCGCGGTGGTCCCAC
 CTGACCCCATGCCGAACTCAGAAGTGAAACGCCGTAGCGCCGATGGTAGTGT
 GGGGTCTCCCCATGCGAGAGTAGGGAACTGCCAGGCATCAAATAAACGAA
 AGGCTCAGTCGAAAGACTGGGCTTCGTTTATCTGTTGTTGCGGTGAAC
 GCTCCTGAGTAGGACAAATCCGCCGGAGCGGATTGAACGTTGCGAAGC
 AACGGCCCGGAGGGTGGCGGGCAGGACGCCGACATAAAACTGCCAGGCATC
 AAATTAAAGCAGAAGGCCATCCTGACGGATGGCCTTTGCGTTCTACAAAC
 TCTCCTGTCGTATCTACAAGCCATCCCCCACAGATACGGTAAACTAGC
 CTCGTTTGATCAGGAAAGCAGCTATGAACCACTCCTAAACCCCTGGAA
 CACATTGGCATTGATCATAATGCTCAGCACATTGTATGGCCTTAAGGGCC
 CAACAATTACTCAATGCCCTGGCAGTATGCAACCGCAGAAGGACAACCCGTT
 TTATTCTGGGTGAAGGAAGTAATGTTACTTTCTGGAGGACTATCGCGGAC
 GGTGATCATCAACCGGATCAAAGGTATCGAAATTCACTGATGAAACCTGATGCG
 TGGTATTACATGTAGGAGCCGGAGAAAACCTGGCATTGCTGGTAAATACA
 CTTGCAGGAAGGTATGCCCTGGCTGGAAAATCTGGCATTAAATTCTGGTGT
 GTCGGCTCATCACCTATCCAGAAATTGGTGTCTGGCTATGGCGTAGAATTACAGC
 GAGTTTGCCTATGTTGATTCTGTGAACCTGGCATTGCTGGTAAACATGCG
 CTTAACTGCCAAAGAGTGCCGTTGGCTATCGCGACAGTATTAAACATG
 AATACCAGGACCGCTCGTATTGTTAGCCGTAGGTCTGCGTCTGCCAAAAGA
 GTGGCAACCTGTACTAACGTATGGTACTTAACCGTCTGGTAAACAGGAG
 CGGGTGTGGTCGCCATGATCGCGTAGTCGATAGTGGCTCCAAGTAGCGAAGC
 GAGCAGGACTGGCGGCCAAAGCGGTGGACAGTGTCCGAGAACCGGG
 TGCATAGAAATTGCATCAACGCATATAGCGCTAGCAGCACGCCATAGTGA
 CTGGCGATGCTGCGAATGGACGATATCCCGCAAGAGGCCGGCAGTACC
 GGCATAACCAAGCCTATGCCCTACAGCATCCAGGGTACGGTGCCGAGGATG
 ACGATGAGCGCATTGTTAGATTCTACACGGTGCCTGACTGCGTTAGCAAT
 TTAACGTGATAAAACTACCGCATTAAAGCTTATCGATGATAAGCTGTCAAAC
 ATGAGAATTCTGAAGACGAAAGGGCTCGTATACGCCATTTTTATAGGT
 TAATGTCATGATAATAATGGTTCTAGACGTAGGTGGACTTTGGGG
 AATGTGCGCGAACCCCTATTGTTATTCTAAATACATTCAAATATGTA
 TCCGCTCATGAGACAATAACCCGTATAATGCTCAATAATATTGAAAAGG
 AAGAGTATGAGTATTCAACATTCCGTGTCGCCCTATTCCCTTTGCGGC
 ATTTGCCTCCTGTTTGCTACCCAGAAACGCTGGTGAAGAAGTAAAGATG
 CTGAAGATCAGTGGGTGCACGAGTGGTTACATCGAACTGGATCTAACAG
 CGGTAAGATCCTGAGAGTTCCGGCCGAAGAACGTTCCAATGATGAGC
 ACTTTAAAGTCTGCTATGTGGCGGGTATTATCCGTGTTGACGCCGGCA
 AGAGCAACTCGGTGCCGCATAACTATTCTCAGAATGACTGGTTGAGTAC
 TCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTAT
 GCAGTGCTGCCATAACCATTGAGTGATAACACTGCCAACCTACTCTGAC

Fig. 25

Cont.

AACGATCGGAGGACCGAAGGAGCTAACCGCTTTGCACAACATGGGGGA
 TCATGTAACTCGCCTGATCGTGGAACCGGAGCTGAATGAAGCCATACCA
 AACGACGAGCGTACACCAACGATGCCTGCAGCAATGGCAACAAACGTTGCGC
 AAACTATTAACGGCGAACTACTTACTCTAGCTTCCCAGCAACAATTAG
 ACTGGATGGAGGCGGATAAAGTGCAGGACCACTCTGCCTCGGCCCTCC
 GGCTGGCTGGTTATTGCTGATAAAATCTGGAGCCGGTGAAGCGTGGGTCTCGC
 GGTATCATTGCAGCACTGGGCCAGATGGTAAGGCCCTCCGTATCGTAGTTA
 TCTACACGACGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCG
 CTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACTGTCAGACCAAGTTA
 CTCATATATACTTAGATTGATTAAAACCTCATTAAATTAAAAGGATCT
 AGGTGAAGATCCTTTGATAATCTCATGACCAAAATCCCTAACGTGAGTTT
 TCGTTCCACTGAGCGTCAGACCCCTAGAAAAGATCAAAGGATCTTCTGAG
 ATCCTTTCTGCGCGTAATCTGCTGCTGCAAACAAAAACCACCGCTA
 CCAGCGGTGGTTGTTGCCGATCAAGAGCTACCAACTCTTCCGAAGGT
 AACTGGCTCAGCAGAGCGCAGATACCAAATACTGTCCTCTAGTGTAGCCG
 TAGTTAGGCCACCACTCAAGAACTCTGCTAGCACCGCCTACATACTCGCTCT
 GCTAACCTGTTACCACTGGCTGCCAGTGGCGATAAGTCGTGTCTTAC
 GGGTTGGACTCAAGACGATAGTTACCGGATAAGGCCAGCGGTGGCTGA
 ACGGGGGGTTCGTCACACAGCCCAGCTGGAGCGAACGACCTACACCGAA
 CTGAGATACCTACAGCGTGAGCTATGAGAAAGGCCACGCTCCGAAGGG
 AGAAAAGCGGACAGGTATCCGTAAGCGGCAGGGTCGGAACAGGAGAGCG
 CACGAGGGAGCTTCCAGGGGAAACGCCCTGGTATCTTATAGTCCTGTCGGG
 TTGCGCACCTCTGACTTGAGCGTCATTGATGCTGTCAGGGGCG
 GAGCCTATGGAAAAACGCCAGCAACGCCCTTTACGGTTCTGGCCTT
 TGCTGGCCTTGCTCACATGTTCTGCTTACAGCTGCTGTTACCCCTGATTCTGTGGAT
 AACCGTATTACCGCCTTGAGTGAGCTGATACCGCTGCCAGCCGAACGA
 CCGAGCGCAGCGAGTCAGTGAGCGAGGAAGCGGAAGAGCGCCTGATGCGGT
 ATTTCTCCTACGCATCTGCGGTATTCACACCGCATATGGTCACTCTC
 AGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAGTATACACTCCGCTATC
 GCTACGTGACTGGGTCTGGCTGCCCGACACCGCCAACACCGCTGAC
 GCGCCCTGACGGGCTTGTCTGCTCCGGCATCCGTTACAGACAAGCTGTGA
 CCGTCTCCGGAGCTGCATGTGTCAGAGGTTTACCGTCATACCGAAACG
 CGCAGGGCAGCTGCCGTAAAGCTCATCAGCGTGGCTGAAGCGATTACA
 GATGTCTGCTGTTCATCCCGTCCAGCTCGTTGAGTTCTCCAGAAGCGTTA
 ATGTCGGCTCTGATAAAGCGGGCATGTTAAGGGCGTTTCTGTTG
 GTCACCTGATGCCTCCGTGAAGGGGAATTCTGTTCATGGGGTAATGAT
 ACCGATGAAACGAGAGAGAGGATGCTCACGATACTGGTTACTGATGATGAACA
 TGCCCGTTACTGGAACGTTGTGAGGGTAAACAACGCGGTATGGATGCGG
 CGGGACCAAGAGAAAAACTCACTCAGGGTCAATGCCAGCGCTCGTTAATACA
 GATGTAGGTGTTCCACAGGGTAGCCAGCAGCATCTGCGATGCCCTGGCGAAA
 GGGGGATGTGCTGCAAGGGGATTAAGTGGTAAACGCAAGGGTTTCCAGT
 CACGACGTTGTAACGACGGCCAGTGAATTGAGCTCGGTACCTGCACTGA
 CGACAGGAAGAGTTGAGAAACGCAAAAGGCCATCCGTCAAGGATGGCCT
 TCTGCTTAATTGATGCCTGGCAGTTATGGCGGGCGTCTGCCGCCACCC
 CGGGCCGTTGCTCGCAACGTTCAAATCCGCTCCGGGGATTGTCCTACT

Fig. 25
Cont.

CAGGAGAGCGTCACCGACAAACACAGATAAAACGAAAGGCCAGTCTT
 CGACTGAGCCTTCGTTTATTGATGCCTGGCAGTCCCTACTCTCGCATGG
 GGAGACCCCACACTACCATCGCGCTACGACTAGATTATTGTAGAGCTCAT
 CCATGCCATGTGTAATCCCAGCAGCAGTTACAAACTCAAGAAGGACCATGTG
 GTCACGCTTCGTTGGATCTTCGAAAGGGCAGATTGTGTCGACAGGTA
 TGGTTGTCTGGTAAAAGGCAGGGCCATGCCAATTGGAGTATTGTGAT
 AATGGTCTGCTAGTTGAACGGATCCATCTCAATGTTGGCGAATTGAA
 GTTAGCTTGATTCCATTCTTGTGCTGCCGTGATGTATACATTGTGTA
 GTTATAGTTGACTCGAGTTGTGTCGAGAATGTTCCATCTCTTAAAAT
 CAATACCTTTAACCGATAACGATTAACAAGGGTATCACCTCAAACCTGACT
 TCAGCACGCGTCTTGTAGTTCCGTATCTTGAAAGATATAGTGCCTG
 TACATAACCTCGGGCATGGCACTCTGAAAAAGTCATGCCGTTCATATGA
 TCCGGATAACGGAAAAGCATTGAACACCATAAGAGAAAGTAGTGACAAGT
 GTTGGCCATGGAACAGGTAGTTCCAGTAGTGCAAATAAATTAAAGGGTAA
 GCTTCCGTATGATGACATCACCTCACCCCTCCACTGACAGAAAATTGTG
 CCATTAACATCACCATCTAACACAAGAATTGGGACAACACTCCAGTGAAA
 GTTCTCTCCTTGCTCGCAGTGATTTCTCCATTGCGGAGGGATATGA
 AAGCGGCCGCTCACACATTAAACTAGTCGATGATTAATTGTCACAGCT
 CGCCGGCGGCACCTCGCTAACGGATTCAACACTCCAAGAATTGGAGCCAATC
 GATTCTGCGGAGAACTGTGAATGCGGGTACCCAGATCCGGAACATAATGGT
 GCAGGGCGCTGACTTCCGCGTTCCAGACTTACGAAACACGGAAACCGAAG
 ACCATTCATGTTGCTCAGGTGCGAGACGTTGCAGCAGCAGTCGCTTCA
 CGTCGCTCGGTATCGGTGATTCTGCTAACCAAGTAAGGCAACCCCGC
 CAGCCTAGCCGGGTCCTCAACGACAGGAGCACGATCATGCGCACCCGTGGCC
 AGGACCCAACGCTGCCAGAGATGCGCCGCGTGCAGCTGGAGATGGGG
 ACGCGATGGATATGTTCTGCCAAGGGTTGGTTGCGCATTACAGTTCCGC
 AAGAATCGATTGGCTCCAATTCTGGAGTGGTGAATCCGTTAGCGAGGTGCC
 GCCGGCGAGCTGTTGACAATTATCATCGAACTAGTTAATGTGTTGAAGCG
 GCCGCTTCATATCCCTCCGCAAATGGAGAAAAAAACTCACTGGATATACCAC
 CGTTGATATATCCCAATGGCATCGAAAGAACATTGAGGCATTCACTGCA
 GTTGTCAATGTACCTATAACCAGACCGTCAGCTGGATATTACGGCCTTT
 AAAGACCGTAAAGAAAAATAAGCACAAGTTTATCCGGCTTATTACATT
 CTTGCCCGCCTGATGAATGCTCATCCGAATTCCGTATGGCAATGAAAGACG
 GTGAGCTGGTGATATGGGATAGTGTTCACCCCTTTACACCGTTCCATGAG
 CAAACTGAAACGTTTCATCGCTGGAGTGAATACCACGACGATTCCGGC
 AGTTTCTACACATATTGCAAGATGTGGCGTGTACGGTAAAACCTGGC
 CTATTCCCTAAAGGGTTATTGAGAATATGTTTCTCGTCAGCCAATCCCT
 GGGTGAGTTCACCAAGTTGATTAAACGTGGCCAATATGGACAACCTCTC
 GCCCCCGTTTCACCATGGGCAAATATTACGCAAGGCGACAAGGTGCTGA
 TGCCGCTGGCGATTCAAGGTTCATCATGCCGTCTGTGATGGCTTCCATGTCGGC
 AGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGCG
 TAATTGTTAAGGCAGTTATTGGTGCCTTAAACGCCTGGTCTACGCCTGA
 ATAAGTGATAATAAGCGGATGAATGGCAGAAATTGCAAAGCAAATTGAC
 CGGTCGTCGGTTCAAGGGCAGGGTGTAAATAGCCGTTATGTCTATTGCTG
 GTTACGGTTATTGACTACCCGAAGCAGTGTGACCCGTGCTCTCAAATGC

Fig. 25

Cont.

CTGAGGGCAGTTGCTCAGGTCTCCGTGGGGGGAAATAATTACGGTATGA
 GCCTTACGGCGGACGGATCGTGGCCGCAAGTGGGTCCGGCTAGAGGATCCG
 ACACCATCGAATGGTGCAAAACCTTCGCGGTATGGCATGATAGCGCCCGA
 AGAGAGTCAATTCAAGGGTGGTGAATGTGAAACCAGTAACGTTATACGATGTC
 GCAGAGTATGCCGGTGTCTTATCAGACCGTTCCCGCGTGGTGAACCAAGG
 CCAGGCCACGTTCTCGA AAAACCGCGGGAAAAAGTGGAAAGCGGCGATGGCGG
 AGCTGAATTACATTCCAACCGCGTGGCACAACA ACTGGCGGGCAAACAGTC
 GTT GCTGATTGGCGTTGCCACCTCCAGTCTGCCCTGCACGCCGTGCAA
 ATTGTCGCGCGATTAAATCTCGCCCGATCAACTGGGTGCCAGCGTGGTGG
 TGTGATGGTAGAACGAAGCGCGTCGAAGCCTGTAAGCGGGCGTGCACA
 ATCTTCTCGCGAACGGGTCACTGGGCTGATCATTAACTATCCGCTGGATGA
 CCAGGATGCCATTGCTGTGGAAGCTGCCTGCACTAAATGTTCCGGCGTTATTTC
 TTGATGTCTTGACCAAGACACCCATCAACAGTATTATTTCTCCATGAAGAC
 GGTACCGCGACTGGCGTGGAGCATCTGGTCGCACTGGGTACCAAGCAAATCG
 CGCTGTTAGCGGGCCCATTAAAGTTCTGTCTCGCGCGTCTCGTCTGGCTGGC
 TGGCATAAAATATCTCACTCGCAATCAAATTCAAGCGATAGCGGAACGGGAAG
 GCGACTGGAGTGCCATGTCCGGTTTCAACAAACCATGCAAATGCTGAATGA
 GGGCATCGTCCCAGTGCATGCTGGTGCACAGATGGCGCTGGC
 GCAATGCGCGCCATTACCGAGTCCGGGCTGCGCGTTGGTGC GGATATCTCGG
 TAGTGGGATACGACGATACCGAAGACAGCTCATGTTATATCCGCCGTCAAC
 CACCATCAAACAGGATTTCGCGCTGCTGGGCAAACCAAGCGCGACT
 CTGCAACTCTCTCAGGGCCAGGCAGTGAAGGGCAATCAGCTGTTGCCCGTCT
 CACTGGTAAAAGAAAAACCACCCCTGGCGCCAAATACGCAAACCGCCTCTCC
 CCGCGCGTTGGCCGATTCAATTAGCAGCTGGCACGACAGGTTCCCGACTG
 GAAAGCGGGCAGTGAGCGAACGCAATTAAATGTGAGTTAGCTCACTCATTAG
 GCACCCCAGGCTTACACTTATGCTTCCGGCTCGTATAATGTGTGGAATTGT
 GAGCGGATAACAATTACACAGCGGCCGTGAGAAAAAGCGAACGCGGAC
 TGCTCTTAACAATTATCAGACAATCTGTGTGGGACTCGAACGATACGGAT
 TCTAACGTCGCAAGACGAAAATGAATACCAAGTCTCAAGAGTGAACACG
 TAATTCAATTACGAAGTTAATTCTTGAGCGTCAAACCTTT

Fig. 25

Cont.

AAATTGAAGAGTTGATCATGGCTCAGATTGAACGCTGGCGGCAGGCCTAAC
 ACATGCAAGTCGAACGGTAACAGGAAGAAGCTTGCCTTGTGACGAGTG
 GCGGACGGGTGAGTAATGTCTGGAAACTGCCTGATGGAGGGGATAACTA
 CTGGAAACGGTAGCTAATACCGCATAACGTCGCAAGACCAAAGAGGGGAC
 CTTGGGCCTTGCATCGGATGTGCCAGATGGGATTAGCTAGTAGGTGG
 GGTAACGGCTCACCTAGGCGACGATCCCTAGCTGGTCTGAGAGGATGACCAG
 CCACACTGGAACTGAGACACGGTCCAGACTCCTACGGGAGGCAGCAGTGGG
 GAATATTGCACAATGGCGCAAGCCTGATGCAGCCATGCCGCGTGTATGAAG
 AAGGCCTTCGGTTGAAAGTACTTCAGCGGGAGGAAGGGAGTAAAGTT
 AATACCTTGCTCATTGACGTTACCGCAGAAGAAGCACC GGCTAACTCCGT
 GCCAGCAGCCGCGTAATACGGAGGGT GCAAGCGTTAATCGGAAATTACTGG
 GCGTAAAGCGCACCGCAGGGGTTGTTAAGTCAGATGTGAAATCCCCGGCT
 CAACCTGGGAACTGCATCTGATACTGGCAAGCTGAGTCTCGTAGAGGGGG
 TAGAATTCCAGGTGTAGCGGTGAAATGCGTAGAGATCTGGAGGAATACCGG
 TGGCGAAGGCAGGCCCCCTGGACGAAGACTGACGCTCAGGTGCGAAAGCGTG
 GGGAGCAAACAGGATTAGATACCCCTGGTAGTCCACGCCGTAACCGATGTCG
 ACTTGGAGGTTGTGCCCTTGAGGCCTGGCTCCGGAGCTAACGCGTTAAGTC
 GACCGCCTGGGAGTACGCCGCAAGGTTAAAACCAAATGAATTGACGGG
 GGCCCGACAAGCGGCGGAGCATGTGGATTAATTGATGCAACCGGAAGAA
 CCTTACCTGGGTTGACATGCACAGGACCGTCTAGAGATAGGCCTCCCTT
 GTGGCCTGTGCAAGGTGGTGCATGGCTGTCGTCAAGCTCGTGTGAGATG
 TTGGGTTAAGTCCCACAGGAGCTCGTGAGAGACTGCCGGGTCAACTCGGAGGAAGGTGGG
 GATGACGTCAAGTCATCATGCCCTTATGTCACAGGCTTCACACATGCTACA
 ATGGCCGGTACAAAGGGCTGCGATGCCGAGGTTAAGCGAATCCTAAAAA
 GCCGGTCTCAGTTGGATCGGGTCTGCAACTCGACCCCGTGAAGTCGGAGT
 CGCTAGTAATCGCAGATCAGCAACGCTGCCGTGAAATACGTTCCGGGCTT
 TACACACCGCCGTACGTCAAGTGGTAACACCCGAAGCCAGTGGCC
 TAACCCCTGGGAGGGAGCTGCGAAGGTGGATCGCGATTGGGACGAAGT
 CGTAACAAGGTAAACGTAGGGGAAACCTGCCGTGGATCATGGGATTACCTTA
 AAGAAGCGTACTTGTAGTGCTCACACAGATTGCTGATAGAAAGTAAAAAG
 CAAGGCCTTACCGTTGGAGTGAGGCTGAAGAGAATAAGGCCGTCGCTT
 TCTATTAATGAAAGCTCACCTACACGAAAATATCACGCAACCGTGTATAAG
 CAATTTCGTGTCCTCGTCAAGCTAGCGCCGATGGTAGTGTGGGGTCT
 CCCCACGAGAGTAGGAACTGCCAGGCATCAAATAAAACGAAAGGCTCA
 GTCGAAAGACTGGCCTTCGTTATCTGTTGTTGTCGGTGAACGCTCTCC
 TGAGTAGGACAAATCCGCCGGAGCGGATTGAAACGTTGCGAAGCAACGGC
 CCGGAGGGTGGCGGGCAGGACGCCATAAACTGCCAGGCATCAAATT
 AGCAGAAGGCCATCCTGACGGATGCCCTTTGCGTTCTACAAACTCTCCT
 GTCGTCAGGCACTGCAAGCTGGCGTAATCATGGTCATAGCTGTT
 GTGTGAAATTGTTACCGCTCACAAATTCCACACACATACGAGCCGAAGCA
 TAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACACATTAATTGC
 GTTGCCTCACTGCCGCTTCCAGTCGGAAACCTGTCGTGCCAGCTGCATT
 AATGAATCGGCCAACCGCGGGGAGAGGGGGTTGCGTATTGGCGCTCTC
 CGCTCCTCGCTCACTGACTCGCTCGCTCGGTGCGAGCG

Fig. 26

GTATCAGCTCACTCAAAGGCGGTAAACGGTTATCCACAGAATCAGGGGATA
 ACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGT
 AAAAAGGCCGCGTTGCTGGCGTTTCCATAGGCTCCGCCCTGACGAGC
 ATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTAT
 AAAGATAACCAGGCGTTCCCCCTGGAAAGCTCCCTCGTGCCTCTCCCTGTTCCG
 ACCCTGCCGCTTACCGGATACCTGTCCGCCTTCTCCCTCGGGAAAGCGTGGC
 GCTTCTCATAGCTCACGCTGTAGGTATCTCAGTCGGTAGGTGCTCGCT
 CCAAGCTGGGCTGTGCACGAACCCCCCGTTAGCCCCGACCGCTGCCCT
 ATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTATGCCA
 CTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGAGGCGGT
 GCTACAGAGTTCTGAAGTGGTGGCTAACACTACGGCTACACTAGAAGGACAG
 TATTGGTATCTGCCTCTGTAAGGCCAGTTACCTCGGAAAAAGAGTTGG
 TAGCTCTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTGTT
 GCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTGA
 TCTTCTACGGGTCTGACGCTCAGTGGAACGAAAACCTACGTTAAGGGAT
 TTTGGTCATGAGATTATCAAAAAGGATCTCACCTAGATCCTTAAATTAAA
 AATGAAGTTTAAATCAATCTAAAGTATATGAGTAAACCTGGTCTGACAG
 TTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTGTT
 CATCCATAGTTGCCTGACTCCCCGCGTAGATAACTACGATAACGGGAGGG
 CTTACCATCTGGCCCCAGTGCTGCAATGATACCGCAGACCCACGCTCACCG
 GCTCCAGATTATCAGCAATAAACCAAGCCAGCCGGAAAGGGCCAGCGCAGA
 AGTGGTCCTGCAACTTATCCGCCTCCATCCAGTCTATTAAATTGTTGCCGG
 AGCTAGAGTAAGTAGTCGCCAGTTAATAGTTGCGCAACGTTGTTGCCATT
 GCTACAGGCATCGGGTGTACGCTCGTGTGGTATGGCTTCATTAGCTC
 CGGTTCCCAACGATCAAGGCAGTTACATGATCCCCATGTTGCAAAAAAA
 GCGGTTAGCTCCTCGGTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAG
 TGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTTACTGTCATGCCA
 TCCGTAAGATGCTTCTGTGACTGGTAGTACTCAACCAAGTCATTGAGA
 ATAGTGTATCGGGCGACCGAGTTGCTCTGCCCCGGTCAATACGGGATAAT
 ACCGCGCCACATAGCAGAACTTAAAAGTGCATCATTGGAAAACGTTCTT
 CGGGCGAAAACCTCAAGGATCTTACCGCTGTTGAGATCCAGTTGATGTA
 ACCCACTCGTCACCCAACTGATCTCAGCATCTTACTTCACCAGCGTT
 CTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGAAAAAAGGGAATAAGG
 GCGACACGGAAATGTTGAATACTCATCTTCAATATTGAGAAG
 CATTATCAGGGTTATTGTCATGAGCGGATACATATTGAAATGTATTAGA
 AAAATAACAAATAGGGGTTCCGCGCACATTCCCGAAAAGTGCCACCTGA
 CGTCTAAGAAACCAATTATTATCATGACATTAACCTATAAAAATAGGCGTATC
 ACGAGGCCCTCGTCTCGCGTTCGGTATGACGGTAAAAACCTCTGAC
 ACATGCAGCTCCGGAGACGGTACAGCTGTCAGCGGGTTGGCGGGTGTGGGGCTG
 CAGACAAGCCGTAGGGCGCTCAGCGGGTGTGGCGGGTGTGGGGCTG
 GCTTAACATGCGGCATCAGAGCAGATTGACTGAGAGTGCACCATATGCGG
 TGTGAAATACCGCACAGATGCGTAAGGAGAAAATACCGCATCAGCGCCAT
 TCGCCATTCAAGGCTCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTT
 CGCTATTACGCCAGCTGGCGAAAGGGGATGTGCTGCAAGGCAGTAAGTG
 GGTAACGCCAGGGTTTCCCAGTCACGACGTTGAAAACGACGCCAGTGAA

Fig. 26
Cont.

TTCGAGCTCGGTACCTGCAGTGACGACAGGAAGAGAGTTGTAGAAACGCAAA
 AAGGCCATCCGTCAAGGATGGCCTCTGCTTAATTGATGCCCTGGCAGTTATG
 GCGGGCGTCCTGCCACCCCTCCGGGCCGTTGCTCGCAACGTTCAAATC
 CGCTCCC GGCGGATTGTCTACTCAGGAGAGCGTTACCGACAAACAAACAG
 ATAAAAACGAAAGGCCAGCTTCGACTGAGCCTTCGTTTATTGATGCCT
 GGCAGATTCCCTACTCTCGCATGGGGAGACCCCACACTACCATGGCGCTACG
 TCTAGATTATTGTAGAGCTCATCCATGCCATGTGTAATCCCAGCAGCAGTTA
 CAAACTCAAGAAGGACCATGTGGTCACGCCTTCGTTGGGATCTTCGAAAG
 GGCAGATTGTGTCGACAGGTAATGGTTGCTGGTAAAAGGACAGGGCCATCG
 CCAATTGGAGTATTGTGATAATGGTCTGCTAGTTGAACGGATCCATCTTC
 AATGTTGTGGCGAATTGTGAAAGTTAGCTTGATTCCATTCTTGTGCTGC
 CGTATGTATACATTGTGAGTTAGTTGACTCGAGTTGTGTCGAGAA
 TGTTCCATCTTAAAATCAATACCTTAACTCGATACGATTAACAAGG
 GTATCACCTCAAACCTGACTTCAGCACGCGTCTGTAGTTCCGTCATCTT
 GAAAGATATAGTGCCTTCGTACATAACCTCAGGCATGGCACTCTGAAA
 AAGTCATGCCGTTCATATGATCCGGATAACGGAAAAGCATTGAACACCAT
 AAGAGAAAGTAGTGACAAGTGTGGCCATGGAACAGGTAGTTCCAGTAGT
 GCAAATAAAATTAAAGGTAAGCTTCGTATGTAGCATCACCTCACCCCTC
 CACTGACAGAAAATTGTGCCATTAAACATCACCATCTAATTCAACAAGAAT
 TGGGACAACCTCCAGTGAAAAGTTCTCTCCTTGCTAGCAGTGATTTTTCT
 CCATTGCGGAGGGATATGAAAGCGGCCGCTCCACACATTAAACTAGTTG
 ATGATTAATTGTCAACAGCTGCCGGCGCACCTCGCTAACGGATTACAC
 TCCAAGAATTGGAGCCAATCGATTCTGCGGAGAACTGTGAATGCGGGTACC
 CAGATCCGGAACATAATGGTGCAGGGCGCTGACTTCCGCTTCCAGACTT
 ACGAAACACGGAAACCGAAGACCATTCACTGTTGCTCAGGTGCAAGACGT
 TTTGCAGCAGCAGTCGCTTCACGTTGCTCGCGTATCGGTGATTCAATTGCT
 AACCACTAAGGCAACCCGCCAGCCTAGCCGGCTCAACGACAGGAGCA
 CGATCATGCGCACCGTGGCCAGGACCCAACGCTGCCAGATGCGCCGCGT
 GCGGCTGCTGGAGATGGCGGACGCGATGGATATGTTCTGCCAAGGGTTGGT
 TGCCTACAGTTCTCCGCAAGAATCGATTGGCTCAATTCTGGAGTG
 GAATCCGTTAGCGAGGTGCCGCCGGCAGCTGTTGACAATTATCATCGAAC
 TAGTTAATGTGTGGAAGCGGCCGCTTCATATCCCTCCGAAATGGAGAAA
 AAAACTGGATATACCACCGTTGATATATCCCAATGGCATCGTAAAGAAC
 ATTTGAGGCATTCACTGCTCAATGTACCTATAACCAGACCGTTCA
 CTGGATATTACGGCTTTAAAGACCGTAAAGAAAAATAAGCACAAAGTTT
 ATCCGGCCTTATTACATTCTGCCCCGCTGATGAATGCTCATCCGAAATC
 CGTATGGCAATGAAAGACGGTGAGCTGGTATGGGATAGTGTGTTACCC
 GTTACACCGTTCCATGAGCAAACGTTCAACATATTGCAAGATGTGGCG
 TGTTACGGTGAACCTGGCTATTCCCTAAAGGGTTATTGAGAATATGTT
 TTGCTCAGCCAATCCCTGGGTGAGTTCACCAAGTTGATTAAACGTGG
 CCAATATGGACAACCTCTCGCCCCGTTTCACCATGGCAAATATTACG
 CAAGGCGACAAGGTGCTGATGCCGCTGGCGATTAGGTTCATGCCGCT
 GTGATGGCTCCATGCGGAGAATGCTTAATGAATTACAACAGTACTGCGA
 TGAGTGGCAGGGCGGGCGTAATTTTAAGGCAGTTATTGGTGCCCTAA

Fig. 26

Cont.

ACGCCTGGTGCACGCCTGAATAAGTATAAGCGGATGAATGGCAGAA
 ATTCGAAAGCAAATCGACCCGGTCGTCGGTTACGGTTATTGACTACCCGAAGCAGTGTG
 ACCCTGTGCTTCTCAAATGCCTGAGGGCAGTTGCTCAGGTCTCCGTGGGG
 GGGAAATAATTAACGGTATGAGCCTACGGCGGACGGATCGTGGCCGCAAGT
 GGGTCCGGCTAGAGGATCCGACACCATCGAATGGTCAAAACCTTCGCGGT
 ATGGCATGATAGCGCCCGGAAGAGAGTCAATTCAAGGGTGGTGAATGTGAAA
 CCAGTAACGTTATACGATGTCGAGAGTATGCCGGTGTCTTATCAGACCG
 TTTCCC CGTGGTGAACCAGGCCAGCCACGTTCTGCAGAAACCGCGGGAAAA
 AGTGGAAAGCGGCATGGCGGAGCTGAATTACATTCCAACCGCGTGGCACA
 ACAACTGGCGGGCAAACAGTCGTTGCTGATTGGCGTTGCCACCTCCAGTCTG
 GCCCTGCACGCGCCGTCGCAAATTGTCGCGGCGATTAAATCTCGCGCCGATC
 AACTGGGTGCCAGCGTGGTGTGATGGTAGAACGAAGCGCGTCGAAG
 CCTGTAAAGCGGCCGTGCACAATCTCTCGCGCAACGGTCAGTGGGCTGAT
 TATTAACATCCGCTGGATGACCAGGATGCCATTGCTGTGGAAGCTGCCTGC
 ACTAATGTTCCGGCGTTATTCTGATGTCTCTGACCAGAACCCATCAACAG
 TATTATTTCTCCCATGAAGACGGTACCGACTGGCGTGGAGCATCTGGTC
 GCATTGGGcCACCAAGCAAATCGCGCTGTTAGCGGGCCATTAAAGTTCTGTCTC
 GGC CGTCTCGCTGGCTGGCATAAAATATCTCACTCGCAATCAAATT
 CAGCCGATAGCGGAACGGGAAGGGCACTGGAGTGCCATGTCGGTTTCAA
 CAAACCATGCAAATGCTGAATGAGGGCATCGTCCCACTGCGATGCTGGTTG
 CCAACGATCAGATGGCGCTGGCGCAATCGCGCCATTACCGAGTCCGGGCT
 GCGCGTGGTGC GGATATCTCGGTAGTGGGATACGACGATAACCGAAGACAG
 CTCATGTTATATCCCGCCGTCAACCACCATCAAACAGGATTTCGCCTGCTGG
 GGC AAACCAAGCGTGGACCGCTTGCTGCAACTCTCAGGGCCAGGC GG TGAA
 GGGCAATCAGCTGTTGCCGTCTCACTGGTAAAAGAAAAACCACCCCTGGCG
 CCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCATTAAATGCAGC
 TGGCACGACAGGTTCCCAGTGAAAGCGGGCAGTGAGCGCAACGCAATT
 AATGTGAGTTAGCTCACTCATTAGGCACCCAGGCTTACACTTATGCTTCC
 GGCTCGTATAATGTGTGGAATTGTGAGCGGATAACAATTTCACACAGCGGCC
 GCTGAGAAAAAGCGAAGCGGCACTGCTTTAACAAATTATCAGACAATCTG
 TGTGGGCACTCGAACGATACGGATTCTAACGTCGCAAGACGAAAAATGAAT
 ACCAAGTCTCAAGAGTGAACACGTAATTACGAAGTTAATTCTTGAG
 CGTCAAACCTTT

Fig. 26

Cont.